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Water Resources Data for Maine, Water Year 1977

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May 78

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Water Resources Data for Maine

Water Year 1977

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-77-1

Prepared in cooperation with the State of Maine
and with other agencies

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SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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1977

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AUGUST

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SEPTEMBER

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Water Resources Data
for
Maine

Water Year 1977

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-77-1

Prepared in cooperation with the State of Maine
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR
CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY
H. William Menard, Director

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Augusta, Maine 04330

1978

PREFACE

This report was prepared by personnel of the Maine subdistrict office, New England District of the Water Resources Division of the U. S. Geological Survey under the supervision of J. A. Baker, District Chief, and J. T. Callahan, Regional Hydrologist, succeeded by F. T. Schaefer, Acting Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Maine and with other agencies.

This report is one of a series issued by State. The general direction for the series is by J. S. Cragwell, Jr., Chief Hydrologist, U. S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Water resources data for the 1977 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water-levels and water quality of wells. This report contains discharge records for 70 gaging stations; stage only for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 12 gaging stations and 22 wells; and water levels for 17 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies.

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Letter after station name designates type of data: (d) discharge, (c) chemical (b) biological, (m) microbiological, (t) water temperature, (s) sediment

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INTRODUCTION

Water resources data for the 1977 water year for Maine consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 70 gaging stations; stage only records for 2 gaging stations; contents for 17 lakes and reservoirs; water quality for 12 gaging stations and 22 wells; and water levels for 17 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. Locations of gaging stations and observation wells are shown in figure 1. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface water supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of surface waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-water levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1968 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ME-77-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Public Utilities Commission, L. H. Stanley, Chairman, succeeded by R. N. Gelder.

Maine Department of Environmental Protection, W. B. Adams, Jr., Commissioner, succeeded H. E. Warren.

Androscoggin Valley Regional Planning Commission, J. J. Jaworski, Executive Director.

Greater Portland Council of Governments, O. C. Bonsey, Executive Director.

Southern Kennebec Valley Regional Planning Commission, J. B. Forster, Planner Administrator.

Cobbossee Watershed District, T. U. Gordon, Executive Director.

Town of Wilton, D. T. McLaughlin, Chairman Board of Selectmen.

Assistance in the form of funds or services was given by the U.S. Department of State in collecting records published herein for 5 gaging stations; U.S. Environmental Protection Agency for 1 water-quality station; and Corps of Engineers, U.S. Army, for 3 water-quality stations.

The following organizations contributed funds and services through the requirements of the Federal Power Commission:

Kennebec Water Power Company
Union Water Power Company

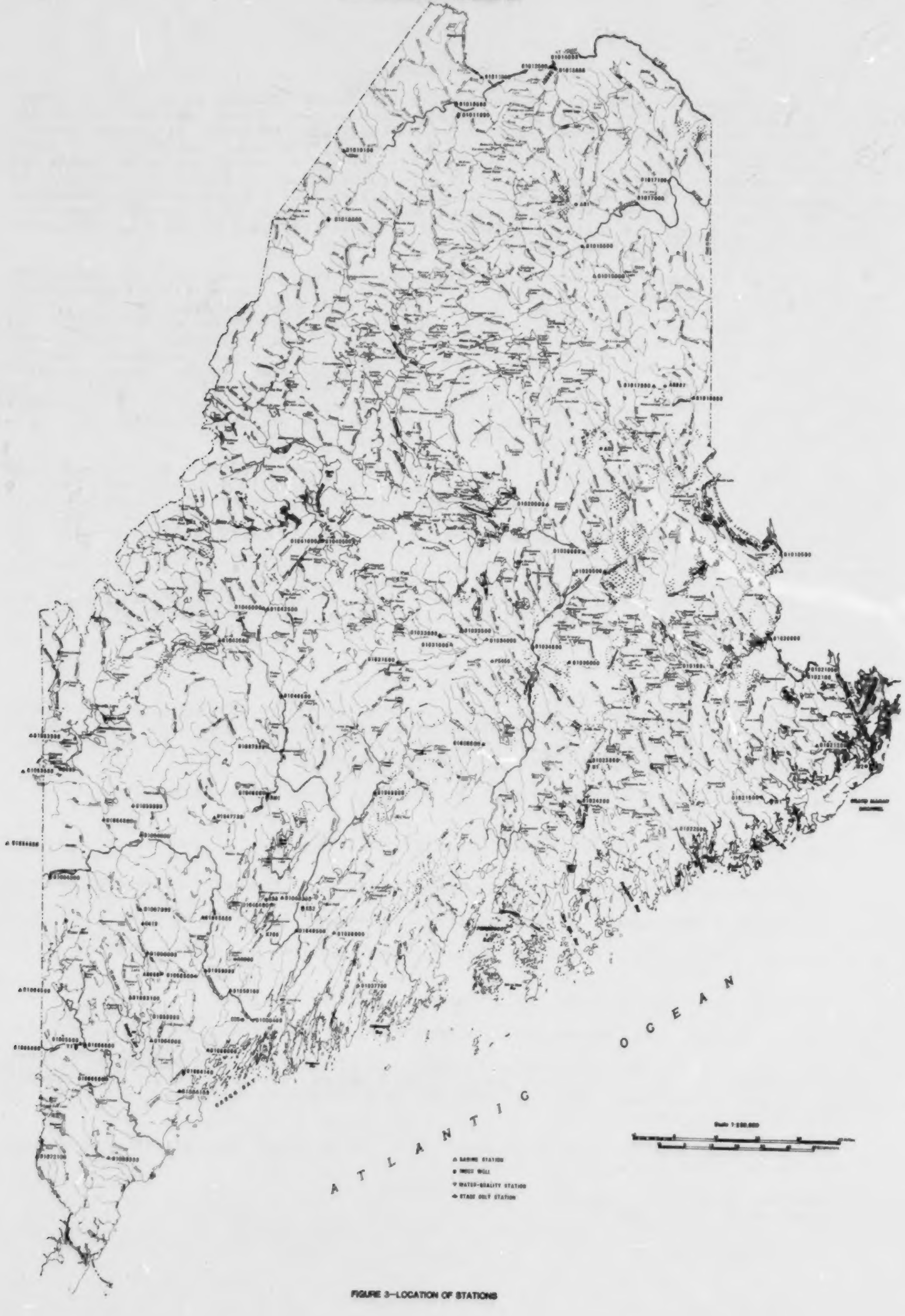

ATLANTIC OCEAN
Scale 1:250,000
▲ GAGING STATION
● INDEX WELL
▼ WATER-QUALITY STATION
◆ STAGE ONLY STATION

FIGURE 3—LOCATION OF STATIONS

The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Georgia-Pacific Corporation
Great Northern Paper Company
Maine Public Service Company

Organizations that supplied data are acknowledged in station descriptions or in footnotes to tables.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "International gaging stations."

HYDROLOGIC CONDITIONS

Runoff for the water year 1977 ranged from normal in the southern portion of the State, to about 35 percent above normal in northern Maine. Mean monthly runoff was in the excessive range at all the index gaging stations for the months of October and March and in the normal range for the months of November and December. Mean monthly runoff was in the deficient range at three of the index gaging stations, although not always the same three, for the months of January, February, and May.

The 1977 water year began with ground-water levels being very high. By the end of November, levels were down to the normal range, and at the end of January they were in the below-normal range. Recharge from rain and snowmelt resulted in above-normal water levels at the end of March in all but the northern and northwestern areas, where levels were average. In April, levels were above average in most of the State, and from May through July were generally average. Above-normal precipitation during August and September resulted in above-normal ground-water levels statewide.

Water in usable storage, which was 180 percent of normal at the start of the water year, decreased through the winter, increased from March through the end of June, then decreased and by the end of September it was still 123 percent of normal. At no time during the water year was storage below normal in the seven reservoir systems.

Figure 2, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1977 water year with median discharges for the 1941-70 period.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting U.S. customary units to International System of Units (SI) on the inside of the back cover.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. These bacteria are defined as organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL (milliliters) of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. These bacteria are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. These bacteria are defined as all organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Concentrations are expressed as number of colonies per 100 mL of sample.

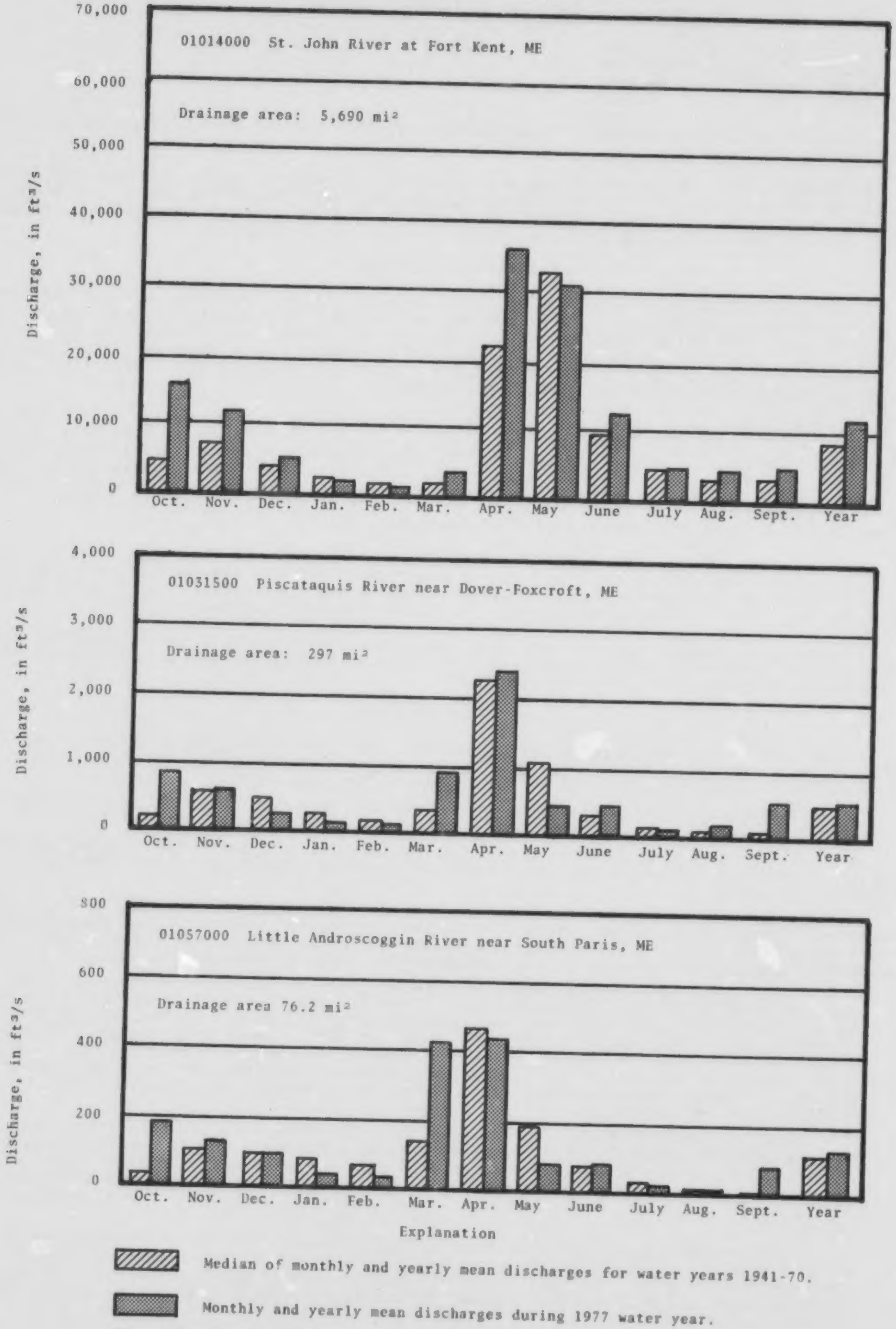


Figure 2.--Comparison of runoff at three long-term index gaging stations during 1977 water year with median runoff for period 1941-70.

Bed material is the unconsolidated material of which the bottom of a stream, lake, pond, reservoir, or estuary is composed.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Biomass pigment ratio is the ratio of organic mass in mg/m^2 (milligrams per square meter) to the mass of chlorophyll *a*, mg/m^2.

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed an the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in water, and gives an approximation of the amount of organic and reducing material present.

Chlorophyll refers to the green pigments of plants. Chlorophyll *a* and *b* are the two most commonly reported green pigments in plants.

Color is expressed in units of the platinum-cobalt scale. A unit of color is produced by one milligram per liter of platinum in the form of the chloroplatinate ion.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow of stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses reported as dissolved (with the exception of gases) are preformed on filtered samples.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to a positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in a sample as mass (micrograms) of constituent per unit volume (liter) of sample. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in a sample. Milligrams per liter represent the mass of constituent per unit volume (liter) of sample. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/volume refers to the number of organisms enumerated in a sample and adjusted to the number per unit volume, usually in cells per milliliter (mL) or liter (L). Numbers of planktonic organisms are expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and(or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periphyton refers to the assemblage of organisms attached to and growing upon submerged surfaces. While primarily consisting of algae, the assemblage may include bacteria, fungi, protozoa, rotifer, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. The major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides are the two categories reported.

pH is a symbol denoting the negative logarithm (base 10) of the hydrogen ion concentration of a solution; pH values range from 0 to 14--the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Phytoplankton are the plant part of the plankton communities which exist in standing waters. They are the primary source of food in their aquatic environments, and are commonly known as algae.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or by volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for estimating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and the volume of water per unit of time flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common: For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexageria*
Species	*Hexagenia limbata*

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analysis) refers to the amount of a substance that is present both in solution and in suspension.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

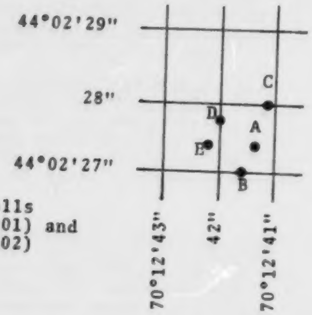
Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction has been made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01022500, which appears just to the left of the station name, includes the 2-digit part number "01" plus the 6-digit downstream order number "022500".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system or latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 3 below.



Coordinates for miscellaneous site C (440228070124101)

Coordinates for wells D (440227070124201) and E (440227070124202)

Coordinates for well A (440227070124101) and miscellaneous site B (440227070124102)

Figure 3. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected twice a year to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "National Geodetic Vertical Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record nor for stations where changes in water development during the period of record cause the figure to have little significance.

Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Tabulations of miscellaneous data follow the information for continuous record stations and are in two tables; the first is a tabulation of measurements made at miscellaneous sites and the second a tabulation of water temperature and specific conductance data obtained at the time discharge measurements were made at continuous record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the subdistrict office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records for these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment are standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements are reported to the nearest hundredth of a foot with reference to land-surface datum (lsd), which is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom); and water levels in wells not equipped with recording gages are reported for the end of each month.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are effective January 1978 but are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. $1.60.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W.Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. $0.85

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $1.00.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.35.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.35.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968, 13 pages. $1.00.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $1.40.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $1.20.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2 1976. 172 pages. $2.50.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. $2.50.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4 Chapter A1. 1968. 39 pages. $1.60.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.35.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. $0.65.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $1.10.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elments in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4.* *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P.E. Greeson, T.A. Ehlke, G.A. Irwin, B.W. Lium, and K.V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. $20.00.

5-A5.* *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. $16.00.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $2.10.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $1.10.

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NORTH ATLANTIC SLOPE BASINS

ST. JOHN RIVER BASIN

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, Hydrologic Unit 01010001, on right bank in T. 12, R. 15, 0.1 mi (0.2 km) downstream from Ninemile Brook, 0.4 mi (0.6 km) downstream from site of Ninemile Bridge, and 11 mi (18 km) northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,290 mi^2 (3,340 km^2), approximately.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. October 1950 monthly discharge only, published in WSP 1721.

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft (283.848 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--27 years, 2,284 ft^3/s (64.68 m^3/s), 24.04 in/yr (611 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft^3/s (1,260 m^3/s) May 1, 1974, gage height, 12.63 ft (3.850 m), from rating curve extended above 21,000 ft^3/s (595 m^3/s); minimum, 59 ft^3/s (1.67 m^3/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11, 12, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,200 ft^3/s (827 m^3/s) Apr. 23, gage height 10.07 ft (3.069 m); maximum gage height, 12.46 ft (3.798 m) Apr. 2 (backwater from ice); minimum discharge, 161 ft^3/s (4.56 m^3/s) July 30, gage height, 0.65 ft (0.198 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	4250	880	450	310	245	3200	9670	706	2000	401	631
2	2110	5300	820	435	305	255	5500	10100	602	1720	317	531
3	1770	4400	790	425	300	260	6600	12000	570	1500	314	486
4	1500	3690	770	410	295	265	6400	11400	1020	1300	388	438
5	1280	6300	750	400	290	270	5800	10100	995	1140	396	420
6	1110	8100	730	390	290	280	5300	9590	1040	1000	454	468
7	985	7120	720	380	285	285	4850	11200	1320	870	719	509
8	946	5500	760	370	280	295	4500	10700	1740	770	731	461
9	1550	4100	850	370	280	310	4100	8390	2200	700	543	394
10	7020	3200	940	370	280	330	3850	6400	1960	620	392	361
11	9040	2700	920	380	275	370	3600	5580	1560	550	317	406
12	6840	2350	890	390	270	410	3410	5240	1390	490	340	449
13	4970	2750	850	380	270	470	3600	5190	1780	480	519	453
14	4200	2500	820	380	265	560	4130	5210	1770	540	581	2440
15	4960	2200	790	375	265	650	4480	4500	1420	490	978	4780
16	4780	2000	750	370	260	800	4750	3800	1070	400	888	3660
17	4170	1800	730	370	260	950	5430	3390	880	325	882	2580
18	3400	1600	700	365	255	1200	7030	3290	2850	287	1050	1930
19	2820	1500	670	360	250	1450	9580	3050	5970	268	868	1520
20	2440	1350	650	355	250	1800	12000	2610	7520	279	752	1200
21	3650	1250	620	350	250	2000	15400	2230	9990	246	1030	949
22	10500	1200	600	345	245	1950	21700	1930	12200	214	1140	784
23	9810	1250	580	340	240	1850	28200	1680	12400	201	1160	667
24	7400	1150	560	335	240	1700	27500	1430	9680	183	1450	565
25	5410	1050	550	330	240	1600	24100	1300	6750	176	2100	524
26	4250	980	540	325	240	1500	19800	1200	5060	180	1730	1050
27	3470	1080	520	320	240	1450	16300	1030	4220	189	1220	3760
28	2920	1130	510	320	240	1400	15200	861	3310	193	871	3810
29	2570	1020	490	315	---	1400	14100	783	2590	176	704	5570
30	2390	920	470	310	---	1500	11700	801	2170	174	670	6550
31	2430	---	460	310	---	2150	---	803	---	198	697	---
TOTAL	123241	83740	21680	11325	7470	29955	302110	155458	106733	17859	24602	48346
MEAN	3976	2791	699	365	267	966	10070	5015	3558	576	794	1612
MAX	10500	8100	940	450	310	2150	28200	12000	12400	2000	2100	6550
MIN	946	920	460	310	240	245	3200	783	570	174	314	361
CFSM	3.08	2.16	.54	.28	.21	.75	7.81	3.89	2.76	.45	.62	1.25
IN.	3.55	2.41	.63	.33	.22	.86	8.71	4.48	3.08	.52	.71	1.39

CAL YR 1976 TOTAL 1331735 MEAN 3639 MAX 30000 MIN 290 CFSM 2.82 IN 38.40
WTR YR 1977 TOTAL 932519 MEAN 2555 MAX 28200 MIN 174 CFSM 1.98 IN 26.89

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 94 micromhos May 21, 1976; minimum, 26 micromhos June 24, 1977.
WATER TEMPERATURES: Maximum, 27.0°C July 15, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 76 micromhos July 28-31, Aug. 7; minimum, 26 micromhos June 24.
WATER TEMPERATURES: Maximum, 27.0°C July 15; minimum, 0.0°C on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	46	46	46	42	42	42	---	---	---	---	---	---
2	47	46	46	42	42	42	---	---	---	---	---	---
3	48	47	48	42	40	41	---	---	---	---	---	---
4	49	48	48	42	42	42	---	---	---	---	---	---
5	50	49	50	42	40	42	---	---	---	---	---	---
6	51	50	50	40	40	40	---	---	---	---	---	---
7	52	51	51	40	40	40	---	---	---	---	---	---
8	52	52	52	40	40	40	---	---	---	---	---	---
9	52	51	52	42	38	39	---	---	---	---	---	---
10	49	46	47	45	37	42	---	---	---	---	---	---
11	45	45	45	46	43	45	---	---	---	---	---	---
12	46	45	46	47	46	46	---	---	---	---	---	---
13	43	43	43	47	47	47	---	---	---	---	---	---
14	43	43	43	47	45	46	---	---	---	---	---	---
15	43	43	43	48	45	47	---	---	---	---	---	---
16	43	43	43	52	46	48	---	---	---	---	---	---
17	44	43	44	50	40	45	---	---	---	---	---	---
18	45	43	44	50	40	46	---	---	---	---	---	---
19	45	45	45	50	50	45	---	---	---	---	---	---
20	45	45	45	48	39	44	---	---	---	---	---	---
21	44	43	43	53	50	52	---	---	---	---	---	---
22	40	39	40	55	53	55	---	---	---	---	---	---
23	40	39	40	56	55	55	---	---	---	---	---	---
24	42	40	41	56	56	56	---	---	---	---	---	---
25	40	40	40	58	56	57	---	---	---	---	---	---
26	42	40	41	57	56	56	---	---	---	---	---	---
27	43	42	42	55	54	54	---	---	---	---	---	---
28	44	42	43	54	53	54	---	---	---	---	---	---
29	42	42	42	55	43	51	---	---	---	---	---	---
30	43	42	42	46	43	45	---	---	---	---	---	---
31	43	42	43	---	---	---	---	---	---	---	---	---
MONTH	52	39	45	58	37	47	---	---	---	---	---	---

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	41	39	40	---	---	---
2	---	---	---	63	63	63	39	34	37	---	---	---
3	---	---	---	63	63	63	---	---	---	---	---	---
4	---	---	---	63	62	63	---	---	---	---	---	---
5	---	---	--	63	62	62	---	---	---	---	---	---
6	---	---	---	62	61	61	---	---	---	---	---	---
7	---	---	---	61	61	61	---	---	---	---	---	---
8	---	---	---	62	61	62	---	---	---	---	---	---
9	---	---	---	62	59	61	---	---	---	---	---	---
10	---	---	---	60	59	59	---	---	---	---	---	---
11	---	---	---	60	59	60	---	---	---	---	---	---
12	---	---	---	60	58	59	---	---	---	---	---	---
13	---	---	---	58	57	58	---	---	---	---	---	---
14	---	---	---	57	55	56	---	---	---	---	---	---
15	---	---	---	55	54	55	---	---	---	---	---	---
16	---	---	---	54	52	53	---	---	---	---	---	---
17	---	---	---	52	50	51	---	---	---	---	---	---
18	---	---	---	50	48	49	---	---	---	---	---	---
19	---	---	---	49	47	48	---	---	---	---	---	---
20	---	---	---	47	46	46	---	---	---	---	---	---
21	---	---	---	46	45	46	---	---	---	---	---	---
22	---	---	---	45	45	45	---	---	---	---	---	---
23	---	---	---	44	44	44	---	---	---	---	---	---
24	---	---	---	44	44	44	---	---	---	---	---	---
25	---	---	---	44	44	44	---	---	---	---	---	---
26	---	---	---	45	44	44	---	---	---	---	---	---
27	---	---	---	45	44	44	---	---	---	---	---	---
28	---	---	---	45	44	44	---	---	---	---	---	---
29	---	---	---	44	44	44	---	---	---	---	---	---
30	---	---	---	44	43	43	---	---	---	---	---	---
31	---	---	---	43	42	42	---	---	---	---	---	---
MONTH	---	---	---	63	42	52	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	39	36	37	75	72	73	60	59	60
2	---	---	---	39	38	39	75	68	71	61	59	59
3	---	---	---	41	39	40	70	67	68	62	60	61
4	---	---	---	42	41	41	68	66	68	64	61	62
5	---	---	---	45	42	44	70	66	69	64	61	62
6	---	---	---	47	45	46	74	69	71	62	61	61
7	---	---	---	50	47	49	76	71	74	63	61	62
8	---	---	---	53	50	52	74	70	71	63	62	62
9	---	---	---	55	54	54	72	70	71	63	61	62
10	---	---	---	57	55	56	73	71	72	63	61	62
11	---	---	---	60	56	59	73	72	72	64	62	64
12	---	---	---	61	59	60	72	68	71	65	64	64
13	---	---	---	63	58	60	74	72	73	65	64	64
14	---	---	---	63	59	61	74	70	72	64	57	60
15	44	43	43	66	61	64	70	68	68	60	52	57
16	45	42	44	71	65	67	68	65	66	54	52	53
17	45	42	44	---	---	---	64	62	64	53	50	51
18	45	37	42	---	---	---	64	64	64	50	48	50
19	36	35	36	---	---	---	64	62	63	50	48	49
20	35	32	33	---	---	---	62	61	62	50	49	49
21	32	29	30	---	---	---	63	61	62	50	49	49
22	29	29	29	---	---	---	63	61	62	51	49	50
23	30	28	29	---	---	---	61	61	61	53	51	52
24	31	26	28	---	---	---	61	60	61	54	52	53
25	32	30	31	---	---	---	61	59	60	55	53	54
26	33	31	32	---	---	---	59	57	58	55	51	54
27	36	32	34	73	70	71	59	58	58	56	45	52
28	38	34	36	76	71	74	60	58	59	54	47	50
29	38	36	37	76	75	76	61	59	60	50	42	48
30	37	36	36	76	68	74	59	58	59	44	39	42
31	---	---	---	76	72	74	60	58	59	---	---	---
MONTH	45	26	35	76	36	57	76	57	66	65	39	56
PERIOD	76	26	52									

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.0	8.5	9.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2	13.0	7.5	10.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	12.0	8.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11.5	8.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	12.5	9.0	10.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
6	12.5	8.5	10.5	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
7	13.0	11.5	12.0	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
8	8.5	11.0	10.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	7.5	7.5	7.5	1.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
10	7.0	6.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	6.0	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	6.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.5	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.5	3.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
21	4.5	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	3.5	3.0	3.5	1.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3.0	2.5	2.5	3.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24	2.0	1.5	2.0	3.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
25	2.0	1.5	1.5	3.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1.5	1.0	1.5	3.5	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1.0	0.0	1.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	2.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
29	1.0	0.0	1.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.5	0.5	1.0	1.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
31	1.5	1.5	1.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	13.0	0.0	5.5	3.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.0	6.0	2.5	4.0
2	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	5.0	4.0	4.5
3	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	5.0	3.0	4.0
4	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	6.0	3.5	5.0
5	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	7.5	4.5	6.0
6	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	7.5	6.0	7.0
7	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	7.0	5.5	6.0
8	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	6.0	4.5	5.0
9	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	6.0	4.5	5.5
10	0.0	0.0	0.0	0.5	0.5	0.5	1.0	0.0	0.5	6.5	5.0	5.5
11	0.0	0.0	0.0	0.5	0.5	0.5	1.5	0.0	0.5	8.5	5.0	6.5
12	0.0	0.0	0.0	0.5	0.5	0.5	2.5	0.0	1.0	9.0	6.5	7.5
13	0.0	0.0	0.0	0.5	0.5	0.5	1.0	0.0	0.5	8.5	7.0	8.0
14	0.0	0.0	0.0	0.5	0.5	0.5	1.5	0.0	0.5	7.0	6.0	6.5
15	0.0	0.0	0.0	0.5	0.5	0.5	1.5	0.0	0.5	10.0	5.5	8.0
16	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.0	0.5	11.5	8.5	10.0
17	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.0	1.0	14.0	10.0	12.0
18	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.0	0.5	15.0	12.0	13.5
19	0.0	0.0	0.0	0.5	0.5	0.5	1.5	0.0	0.5	---	---	---
20	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.0	1.0	---	---	---
21	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.0	1.5	---	---	---
22	0.0	0.0	0.0	0.5	0.5	0.5	1.5	1.0	1.0	---	---	---
23	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.5	1.0	---	---	---
24	0.0	0.0	0.0	0.5	0.5	0.5	2.0	0.5	1.5	---	---	---
25	0.0	0.0	0.0	0.5	0.0	0.5	1.5	1.0	1.5	---	---	---
26	0.0	0.0	0.0	0.5	0.5	0.5	2.0	1.0	1.5	---	---	---
27	0.0	0.0	0.0	0.5	0.0	0.5	3.5	1.5	2.5	19.0	14.0	15.5
28	0.0	0.0	0.0	0.5	0.0	0.5	3.0	2.0	2.5	14.0	12.0	13.0
29	---	---	---	0.5	0.0	0.5	2.5	1.0	2.0	20.0	10.5	15.0
30	---	---	---	0.5	0.0	0.5	4.0	1.5	2.5	20.0	14.0	17.0
31	---	---	---	0.5	0.0	0.5	---	---	---	24.0	14.5	19.0
MONTH	0.0	0.0	0.0	0.5	0.0	0.5	4.0	0.0	1.0	24.0	2.5	9.0

01010000 ST. JOHN RIVER AT NINEMILE BRIDGE, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.0	16.0	20.5	19.5	16.5	17.5	23.0	15.5	19.5	19.5	16.5	18.0
2	23.5	18.0	20.5	19.5	16.5	18.0	24.0	18.5	21.0	19.5	17.0	18.0
3	19.5	16.0	17.5	21.0	16.0	18.5	24.0	16.0	19.5	21.5	15.5	18.0
4	17.0	15.0	15.5	19.5	17.5	18.5	23.0	17.0	20.0	20.0	14.0	17.0
5	15.5	14.0	14.5	22.0	16.5	19.0	22.5	18.0	20.0	16.5	14.0	14.5
6	14.5	13.0	13.5	23.0	15.5	19.0	22.5	18.5	20.0	16.5	13.5	14.5
7	15.0	13.0	14.0	25.5	15.5	20.5	24.5	16.5	20.5	16.0	11.0	13.5
8	14.5	12.5	13.5	25.5	17.0	21.5	24.0	19.0	21.0	16.0	10.5	13.0
9	13.5	12.0	12.5	24.5	19.5	21.5	22.5	17.5	20.0	14.5	9.5	12.5
10	16.5	11.5	14.0	25.5	17.0	21.0	19.5	15.0	17.0	15.0	10.5	13.0
11	14.5	13.5	14.0	25.0	17.5	21.5	16.0	15.0	15.5	15.5	11.0	13.5
12	16.5	13.0	14.5	24.5	18.0	21.5	22.5	15.0	18.0	14.5	9.0	12.0
13	18.5	14.5	16.5	25.0	20.0	22.0	23.0	15.0	19.0	13.0	10.0	11.5
14	19.5	15.0	17.0	23.5	19.5	21.5	19.0	16.0	17.5	11.0	7.0	9.5
15	22.0	16.5	19.0	27.0	17.0	22.5	19.5	14.5	17.0	9.5	6.0	8.0
16	22.0	16.0	19.0	---	---	---	17.0	14.0	16.0	10.0	9.0	9.5
17	17.5	14.5	16.0	---	---	---	16.5	14.5	15.5	9.5	9.0	9.5
18	14.5	13.0	14.0	---	---	---	16.0	14.5	15.5	12.0	9.5	10.5
19	13.0	12.5	12.5	---	---	---	17.0	12.5	15.0	13.5	10.5	12.0
20	13.5	12.5	13.0	---	---	---	16.0	12.5	14.5	11.0	9.0	9.5
21	13.5	13.0	13.0	---	---	---	19.0	13.0	15.5	9.5	7.5	8.5
22	13.0	12.5	12.5	---	---	---	14.5	13.0	13.5	11.0	6.0	8.5
23	13.5	12.0	13.0	---	---	---	15.5	12.5	14.0	12.5	7.0	9.5
24	15.0	12.5	14.0	---	---	---	13.5	12.5	13.0	13.0	8.5	10.5
25	16.0	14.5	15.5	---	---	---	14.0	11.0	12.5	13.5	7.0	10.0
26	16.0	15.5	15.5	---	---	---	15.0	10.5	13.0	9.5	8.0	9.0
27	19.5	15.5	17.5	18.5	10.0	14.0	18.5	12.5	15.0	10.5	9.0	9.5
28	22.5	17.5	20.0	22.5	10.5	17.0	20.5	16.0	18.0	10.5	8.5	9.5
29	22.5	20.0	21.0	22.5	14.0	18.0	24.0	18.5	21.0	10.0	8.0	9.0
30	19.5	17.0	18.5	18.5	15.5	16.5	20.5	16.5	19.0	8.0	7.5	8.0
31	---	---	---	22.5	15.5	18.5	20.5	14.0	17.5	---	---	---
MONTH	25.0	11.5	15.5	27.0	10.0	19.5	24.5	10.5	17.0	21.5	6.0	11.5
YEAR	27.0	0.0	6.5									

01010100 SHIELDS BRANCH BIG BLACK RIVER NEAR SEVEN ISLANDS, ME

LOCATION.--Lat 46°56'30", long 69°38'58", Aroostook County, Hydrologic Unit 01010001, on left bank 75 ft (23 m) upstream from bridge, 5.5 mi (8.8 km) east of international boundary at Seven Islands Village, and 2.7 mi (4.3 km) upstream from mouth.

DRAINAGE AREA.--161 mi^2 (417 km^2).

PERIOD OF RECORD.--October 1976 to September 1977 (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 830 ft (253 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,360 ft^3/s (95.2 m^3/s) Apr. 23, gage height, 18.73 ft (5.709 m); minimum, 24 ft^3/s (0.68 m^3/s) July 18-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	445					---	1090	50	200	191	61
2	180	425					---	1180	43	179	126	49
3	145	346					---	1470	101	147	74	41
4	122	---					---	1310	189	111	63	37
5	105	---					---	1120	158	79	142	34
6	93	---					---	1160	148	58	539	34
7	85	---					580	1750	198	45	461	38
8	94	---					520	1760	357	37	300	38
9	332	---					460	1200	394	33	179	34
10	1340	---					420	882	301	30	102	34
11	1350	---					380	791	222	27	61	33
12	840	---					360	780	271	25	48	32
13	514	---					390	771	319	25	49	30
14	464	---					430	729	266	35	46	43
15	680	---					480	596	193	39	47	623
16	636	---					553	544	128	32	45	724
17	518	---					664	548	113	27	43	473
18	403	---					923	586	612	24	84	310
19	326	---					1260	544	748	24	140	226
20	284	---					1560	483	768	24	116	173
21	642	---					1920	440	874	24	260	128
22	1370	---					2650	280	1100	24	391	87
23	1020	---					3250	251	901	24	321	65
24	638	---					3110	221	643	24	250	53
25	447	---					2640	187	464	26	322	45
26	375	---					2030	165	384	84	307	41
27	322	---					1750	139	344	117	214	299
28	279	---					1800	106	279	79	138	614
29	262	---					1780	87	218	44	85	525
30	255	---					1420	74	201	38	70	539
31	290	---					---	58	---	157	69	---
TOTAL	14637	---					---	21302	10987	1842	5283	5463
MEAN	472	---					---	687	366	59.4	170	182
MAX	1370	---					---	1760	1100	200	539	724
MIN	85	---					---	58	43	24	43	30
CFSM	2.93	---					---	4.27	2.27	.37	1.06	1.13
IN.	3.38	---					---	4.92	2.54	.43	1.22	1.26

01010500 ST. JOHN RIVER AT DICKEY, ME

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, Hydrologic Unit 01010001, on right bank at downstream side of highway bridge at Dickey, 0.4 mi (0.6 km) downstream from Little Black River, and 2.8 mi (4.5 km) upstream from Allagash River.

DRAINAGE AREA.--2,700 mi^2 (6,993 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to November 1910 and April to November 1911 (published as "near Dickey"), September 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft (180.033 m) above mean sea level (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft (701 m) downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft (396 m) downstream at same datum.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--31 years (water years 1947-77), 4,697 ft^3/s (133.0 m^3/s), 23.62 in/yr (600 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,200 ft^3/s (2,470 m^3/s) May 1, 1974, gage height, 18.67 ft (5.691 m); maximum gage height, 29.16 ft (8.888 m) Apr. 30, 1974 (backwater from ice); minimum discharge, 129 ft^3/s (3.65 m^3/s) Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 27,000 ft^3/s (765 m^3/s) and maximums (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Apr. 3	0500	ice jam	-	*19.03	5.800	May 8	0300	30100	852	11.57	3.526
Apr. 24	0300	*61800	1750	15.85	4.831						

Minimum daily discharge, 500 ft^3/s (14.2 m^3/s) Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4810	4930	1410	705	550	510	4000	22500	1850	4000	1480	1460
2	4130	6190	1300	680	550	520	6300	21200	1720	3700	1360	1310
3	3420	5940	1220	665	550	530	10000	25100	1630	3300	1110	1200
4	2880	5110	1160	655	550	550	11500	25200	1580	3000	961	1030
5	2500	7000	1110	640	550	585	10800	22300	1960	2600	1240	935
6	2210	11800	1050	620	550	605	9800	21600	1900	2300	2810	896
7	2080	11800	1030	610	550	620	9200	25400	2260	2080	3850	896
8	1960	9280	1600	600	550	640	8600	28800	2880	1800	3100	836
9	2650	6580	2380	590	550	670	8000	28800	3700	1600	2370	870
10	10000	4960	2300	580	550	700	7700	18800	4900	1420	1790	824
11	15600	4080	2100	585	540	730	7400	14800	4100	1280	1390	778
12	16400	3700	1950	590	540	780	7200	14400	3600	1120	1180	766
13	11700	3850	1750	580	540	870	7200	14100	3400	1060	1080	745
14	9600	3540	1600	580	540	1000	7400	13700	3800	1130	1060	870
15	11700	3000	1490	570	540	1150	7900	12300	3300	1220	1200	3520
16	12900	2670	1380	560	535	1400	8800	11000	2700	1150	1290	10300
17	11600	2560	1280	555	530	1680	10200	10500	2320	950	1620	8480
18	9680	2880	1210	550	530	2000	12000	10800	2200	800	1810	5840
19	7690	2900	1150	545	525	2450	16400	10200	5800	700	1960	4250
20	6290	2830	1090	540	525	3200	21000	8360	9000	650	2000	3340
21	6640	2320	1050	540	520	3480	27700	7100	12000	630	2120	2700
22	11200	1920	990	535	520	3450	40200	6200	15800	640	3100	2220
23	13000	1850	950	535	520	3350	56000	5490	18200	640	3100	1890
24	11500	1850	920	530	515	3180	60000	4810	15800	610	2930	1720
25	9080	1810	880	530	510	2960	52500	4050	13000	630	2950	1510
26	7100	1460	850	525	505	2790	43500	3500	11000	735	3540	1410
27	5600	1920	820	530	500	2630	36300	3140	9400	870	3800	1220
28	4990	2060	795	530	505	2550	34300	2790	7200	935	2950	6210
29	5260	2060	760	535	---	2500	33500	2450	5580	812	2260	8310
30	4690	1920	730	545	---	2480	28500	2200	4600	755	1770	8620
31	4960	---	710	550	---	2700	---	2040	---	1160	1530	---
TOTAL	233820	124770	39015	17885	14940	53260	603900	403630	177180	44277	64711	84956
MEAN	7543	4159	1259	577	534	1718	20130	13020	5906	1428	2087	2832
MAX	16400	11800	2380	705	550	3480	60000	28800	18200	4000	3850	10300
MIN	1960	1460	710	525	500	510	4000	2040	1580	610	961	745
CFSM	2.79	1.54	.47	.21	.20	.64	7.46	4.82	2.19	.53	.77	1.05
IN.	3.22	1.72	.54	.25	.21	.73	8.32	5.56	2.44	.61	.89	1.17

CAL YR 1976 TOTAL 2739945 MEAN 7486 MAX 61000 MIN 710 CFSM 2.77 IN 37.75
WTR YR 1977 TOTAL 1862344 MEAN 5102 MAX 60000 MIN 500 CFSM 1.89 IN 25.66

01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURES: April 1975 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

INSTRUMENTATION.--Water-quality monitor since April 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 109 micromhos Sept. 1, 1975; minimum, 30 micromhos Apr. 20, 1976, May 19, 20, June 23, 1977.
WATER TEMPERATURES: Maximum, 28.5°C Aug. 16, 1975; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 161 mg/L Apr. 21; minimum daily mean, 1 mg/L on many days during water year.
SEDIMENT LOADS: Maximum daily, 26,500 tons (24,000 tonnes) Apr. 21; minimum daily, 2.2 tons (2.0 tonnes) Jan. 15-29.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 91 micromhos Mar. 4; minimum, 30 micromhos May 19, 20, June 23.
WATER TEMPERATURES: Maximum, 24.0°C Aug. 2, 4, 29; minimum, 0.0°C on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	51	49	49	56	55	55	49	45	46	56	55	56
2	51	49	50	57	55	56	51	46	48	56	54	55
3	51	49	50	55	52	54	56	49	53	56	56	56
4	52	50	51	53	50	51	59	56	57	56	56	56
5	54	51	52	55	50	52	58	56	57	57	56	56
6	55	52	53	54	52	54	60	56	58	58	56	57
7	56	55	56	53	52	52	55	40	48	58	56	56
8	57	56	56	53	52	52	54	50	52	57	56	56
9	57	57	57	54	47	52	51	51	51	58	57	58
10	63	58	61	55	47	51	53	51	53	59	58	58
11	61	51	55	57	50	54	53	50	51	58	58	58
12	52	50	51	59	43	49	49	49	49	59	58	59
13	50	49	49	61	48	55	49	49	49	60	59	60
14	51	50	50	61	53	56	51	49	49	62	59	60
15	53	51	52	61	53	58	49	38	46	62	59	60
16	53	52	53	63	55	60	44	42	43	63	60	61
17	53	53	53	64	51	58	43	42	43	63	61	61
18	55	51	53	63	61	61	45	43	44	62	61	62
19	53	51	52	61	60	60	46	45	45	65	62	63
20	53	52	52	61	56	58	46	45	45	65	62	63
21	56	52	53	59	56	57	46	45	45	63	62	62
22	56	51	55	65	58	62	48	46	47	64	62	63
23	51	49	50	66	60	63	52	48	51	63	62	63
24	50	49	50	67	61	64	55	52	53	65	62	64
25	50	49	50	67	57	61	53	52	53	64	62	63
26	51	50	51	62	56	57	53	53	53	64	63	63
27	52	50	51	61	57	59	55	53	54	66	65	65
28	53	51	52	57	56	57	56	54	55	66	65	66
29	54	52	53	57	54	56	56	55	55	67	65	66
30	55	54	55	55	45	51	55	55	55	67	66	67
31	55	55	55	---	---	---	56	55	55	67	66	67
MONTH	63	49	53	67	43	56	60	38	50	67	54	61

01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	68	67	68	89	85	87	55	54	55	---	---	---
2	69	68	68	89	86	88	56	52	54	---	---	---
3	70	67	68	90	84	88	56	55	55	---	---	---
4	69	67	68	91	73	84	58	55	56	---	---	---
5	69	68	68	86	81	84	55	55	55	---	---	---
6	70	68	68	85	55	68	---	---	---	---	---	---
7	69	69	69	66	51	58	---	---	---	---	---	---
8	70	69	69	89	60	75	---	---	---	---	---	---
9	70	69	69	90	65	77	---	---	---	---	---	---
10	70	69	70	80	70	76	---	---	---	---	---	---
11	70	69	70	78	61	69	---	---	---	---	---	---
12	78	69	73	79	60	69	---	---	---	---	---	---
13	79	77	78	71	62	67	---	---	---	---	---	---
14	79	77	79	72	69	71	---	---	---	---	---	---
15	79	77	79	72	64	69	---	---	---	---	---	---
16	81	79	80	73	68	71	---	---	---	---	---	---
17	81	80	81	75	72	74	---	---	---	---	---	---
18	82	80	81	74	65	70	---	---	---	---	---	---
19	83	81	82	69	65	67	---	---	---	35	30	33
20	82	72	80	67	59	64	46	42	44	35	30	33
21	83	82	82	63	59	61	44	40	41	35	31	33
22	85	82	84	60	59	60	---	---	---	36	33	35
23	86	84	85	61	59	60	---	---	---	35	34	35
24	87	86	86	59	58	59	---	---	---	36	34	35
25	86	85	86	59	57	59	---	---	---	37	35	36
26	87	67	81	60	59	60	---	---	---	38	35	37
27	87	72	81	60	59	60	---	---	---	---	---	---
28	86	72	77	61	59	60	---	---	---	---	---	---
29	---	---	---	67	62	66	---	---	---	---	---	---
30	---	---	---	65	51	58	---	---	---	---	---	---
31	---	---	---	60	52	56	---	---	---	---	---	---
MONTH	87	67	76	91	51	69	58	40	51	38	30	35

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	78	76	77	67	66	67
2	---	---	---	---	---	---	81	77	80	68	67	67
3	---	---	---	---	---	---	82	80	81	68	67	68
4	---	---	---	---	---	---	81	79	80	69	68	68
5	---	---	---	---	---	---	79	75	77	69	68	68
6	60	56	59	---	---	---	74	68	71	70	68	69
7	65	61	63	---	---	---	73	67	70	72	71	72
8	65	42	49	---	---	---	66	65	66	73	72	72
9	50	43	46	---	---	---	67	66	67	73	72	72
10	67	40	44	---	---	---	68	67	68	73	72	72
11	47	39	40	---	---	---	68	68	68	72	72	72
12	42	38	40	---	---	---	70	67	69	74	72	73
13	43	40	41	---	---	---	72	69	71	74	73	73
14	43	39	42	---	---	---	72	71	72	73	68	71
15	44	39	42	---	---	---	73	72	73	70	60	66
16	43	38	40	---	---	---	74	72	73	68	56	63
17	44	38	39	---	---	---	73	70	72	56	54	55
18	44	40	42	---	---	---	71	69	70	54	53	53
19	43	35	40	---	---	---	71	70	70	53	53	53
20	38	34	36	---	---	---	70	68	69	53	52	53
21	35	31	34	---	---	---	70	68	69	54	53	53
22	34	31	32	---	---	---	69	68	68	56	53	54
23	35	30	33	---	---	---	69	68	69	56	55	56
24	---	---	---	---	---	---	68	64	67	58	55	56
25	---	---	---	---	---	---	66	64	65	59	57	58
26	---	---	---	---	---	---	66	64	65	58	56	58
27	---	---	---	---	---	---	64	62	63	61	56	58
28	---	---	---	---	---	---	64	62	63	60	57	58
29	---	---	---	81	78	79	65	63	64	59	52	55
30	---	---	---	81	77	80	64	63	64	52	50	52
31	---	---	---	79	75	78	66	64	65	---	---	---
MONTH	67	30	42	---	---	---	82	62	70	74	50	63
PERIOD	91	30	60									

01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	8.0	9.0	2.5	1.5	2.0	0.5	0.0	0.5	0.0	0.0	0.0
2	10.5	8.5	9.5	1.5	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.0
3	12.0	9.5	10.5	1.0	0.5	1.0	0.0	0.0	0.0	0.5	0.0	0.5
4	11.5	9.0	10.0	1.5	0.5	1.0	0.5	0.0	0.0	0.5	0.0	0.5
5	12.0	9.0	10.5	2.5	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5
6	11.0	9.5	10.5	2.5	2.0	2.0	0.5	0.0	0.5	0.5	0.0	0.5
7	12.5	11.0	11.5	2.0	1.5	2.0	0.5	0.0	0.0	0.5	0.5	0.5
8	11.5	9.0	10.5	1.5	1.0	1.0	0.5	0.0	0.0	0.5	0.5	0.5
9	9.0	7.5	8.5	1.0	0.0	0.5	0.0	0.0	0.0	1.0	0.0	0.5
10	7.5	7.0	7.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
11	7.0	6.0	6.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5
12	6.5	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5
13	6.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5
14	6.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5
15	6.0	5.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5
16	6.0	5.5	5.5	0.5	0.0	0.5	0.0	0.0	0.0	1.0	0.5	0.5
17	5.5	5.0	5.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5
18	5.5	4.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	1.0
19	5.0	4.0	4.5	1.0	0.0	0.5	0.0	0.0	0.0	1.0	0.5	1.0
20	5.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	1.0
21	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
22	4.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	1.0
23	4.0	3.5	3.5	0.5	0.0	0.5	0.0	0.0	0.0	1.0	1.0	1.0
24	3.5	3.0	3.5	0.5	0.5	0.5	0.0	0.0	0.0	1.0	1.0	1.0
25	3.0	2.5	3.0	0.5	0.5	0.5	0.0	0.0	0.0	1.0	1.0	1.0
26	2.5	2.0	2.5	0.5	0.5	0.5	0.0	0.0	0.0	1.0	1.0	1.0
27	2.0	1.5	1.5	0.5	0.0	0.5	0.0	0.0	0.0	1.0	1.0	1.0
28	1.5	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0	1.0	1.0	1.0
29	2.0	1.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
30	2.5	1.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
31	2.5	2.5	2.5	---	---	---	0.0	0.0	0.0	1.0	1.0	1.0
MONTH	12.5	1.0	6.0	2.5	0.0	0.5	0.5	0.0	0.0	1.0	0.0	0.5

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	1.0	1.0	2.5	2.5	2.5	4.5	4.0	4.0	5.0	2.0	2.5
2	1.0	1.0	1.0	2.5	2.5	2.5	4.0	4.0	4.0	5.0	4.0	4.0
3	1.0	1.0	1.0	2.5	2.5	2.5	6.0	4.0	5.0	4.5	3.0	4.0
4	1.5	1.0	1.5	2.5	2.0	2.5	5.5	4.5	5.0	5.5	3.0	4.5
5	1.5	1.0	1.0	3.0	2.5	2.5	---	---	---	6.5	4.0	5.5
6	1.5	1.0	1.0	3.0	2.0	2.5	---	---	---	6.5	5.5	6.0
7	1.5	1.0	1.0	2.5	2.0	2.5	---	---	---	6.0	5.0	6.0
8	1.5	1.5	1.5	3.0	2.5	2.5	---	---	---	---	---	---
9	1.5	1.0	1.0	3.0	2.5	2.5	---	---	---	---	---	---
10	1.5	1.0	1.5	3.5	2.5	3.0	---	---	---	5.0	4.0	4.5
11	1.5	1.0	1.5	3.5	3.0	3.5	---	---	---	6.5	4.5	5.5
12	1.5	1.0	1.0	3.5	3.0	3.5	---	---	---	7.0	5.5	6.5
13	1.5	1.5	1.5	3.5	3.0	3.5	---	---	---	7.0	6.0	6.5
14	1.5	1.5	1.5	3.5	3.5	3.5	---	---	---	---	---	---
15	1.5	1.5	1.5	3.5	3.0	3.5	---	---	---	---	---	---
16	1.5	1.5	1.5	3.5	3.5	3.5	---	---	---	---	---	---
17	1.5	1.5	1.5	3.5	3.5	3.5	---	---	---	---	---	---
18	2.0	1.5	1.5	3.5	3.5	3.5	---	---	---	---	---	---
19	2.0	1.5	2.0	3.5	3.5	3.5	---	---	---	12.0	9.5	11.0
20	2.0	1.5	2.0	4.0	3.5	3.5	2.5	0.5	1.5	13.5	11.0	12.0
21	2.0	2.0	2.0	4.0	3.5	4.0	2.5	0.5	2.0	13.0	11.5	12.5
22	2.0	2.0	2.0	4.0	3.5	4.0	2.0	1.5	2.0	15.5	13.0	14.0
23	2.0	2.0	2.0	4.0	3.5	4.0	2.0	1.5	1.5	17.5	15.0	16.0
24	2.0	2.0	2.0	4.0	4.0	4.0	2.5	1.0	2.0	18.0	16.0	17.0
25	2.5	2.0	2.0	4.0	4.0	4.0	2.0	1.5	2.0	18.5	16.5	17.0
26	2.5	2.0	2.0	4.0	4.0	4.0	3.0	1.5	2.0	16.5	14.5	15.5
27	2.5	2.0	2.0	4.0	4.0	4.0	4.0	2.0	3.0	---	---	---
28	2.5	2.0	2.0	4.5	4.0	4.0	3.5	2.5	3.5	---	---	---
29	---	---	---	4.5	4.0	4.0	3.0	2.0	2.5	---	---	---
30	---	---	---	4.5	4.0	4.5	3.5	2.0	2.5	---	---	---
31	---	---	---	5.5	4.5	5.0	---	---	---	---	---	---
MONTH	2.5	1.0	1.5	5.5	2.0	3.5	6.0	0.5	3.0	18.5	2.0	9.0

01010500 ST. JOHN RIVER AT DICKEY, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	22.0	18.0	20.0	19.5	18.5	19.0
2	---	---	---	---	---	---	24.0	20.5	22.0	20.0	18.5	19.0
3	---	---	---	---	---	---	23.5	20.0	22.0	21.5	18.0	19.5
4	---	---	---	---	---	---	24.0	20.5	22.5	19.5	17.5	18.5
5	---	---	---	---	---	---	22.5	21.0	21.5	18.5	15.5	16.5
6	---	---	---	---	---	---	22.0	19.5	20.5	16.5	15.0	15.5
7	---	---	---	---	---	---	21.5	19.0	20.5	17.0	13.5	15.0
8	---	---	---	---	---	---	22.5	19.5	21.0	16.0	13.0	14.5
9	---	---	---	---	---	---	21.0	19.5	20.5	15.0	13.0	14.0
10	---	---	---	---	---	---	20.5	18.5	19.5	15.5	13.0	14.0
11	---	---	---	---	---	---	19.0	17.5	18.0	14.5	13.0	14.0
12	---	---	---	---	---	---	21.5	17.0	19.0	15.0	11.5	13.0
13	---	---	---	---	---	---	23.5	18.0	20.5	13.0	12.0	12.5
14	---	---	---	---	---	---	21.0	19.0	19.5	12.0	9.0	10.5
15	---	---	---	---	---	---	20.0	17.5	19.0	10.0	8.0	9.0
16	---	---	---	---	---	---	19.0	16.0	17.5	11.0	10.0	10.5
17	---	---	---	---	---	---	17.5	16.0	16.5	12.0	10.5	11.0
18	---	---	---	---	---	---	18.5	15.5	17.0	12.5	11.5	12.0
19	---	---	---	---	---	---	18.5	15.0	16.5	13.0	12.0	12.5
20	---	---	---	---	---	---	17.5	15.0	16.0	12.0	10.0	11.0
21	---	---	---	---	---	---	19.0	15.0	17.0	11.5	9.5	10.5
22	---	---	---	---	---	---	17.5	14.5	15.5	12.0	9.0	10.5
23	---	---	---	---	---	---	16.0	14.0	15.0	13.0	10.0	11.5
24	---	---	---	---	---	---	15.0	13.5	14.0	13.0	10.5	11.5
25	---	---	---	---	---	---	14.5	13.0	14.0	13.0	10.0	11.0
26	---	---	---	---	---	---	16.0	12.5	14.0	11.0	10.0	10.0
27	---	---	---	---	---	---	18.0	14.5	16.0	11.0	10.0	10.5
28	---	---	---	---	---	---	21.0	17.0	19.0	11.0	10.0	10.5
29	---	---	---	22.0	18.0	20.0	24.0	19.5	21.5	10.5	9.5	10.0
30	---	---	---	20.0	19.0	19.0	23.0	19.0	21.0	9.5	9.0	9.5
31	---	---	---	21.0	18.0	19.0	21.0	17.0	19.0	---	---	---
MONTH	---	---	---	---	---	---	24.0	12.5	18.5	21.5	8.0	13.0
PERIOD	24.0	0.0	5.5									

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, Hydrologic Unit 01010002, on left bank 3.0 mi (4.8 km) upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,250 mi^2 (3,240 km^2), approximately, not including 249 mi^2 (645 km^2) drained by Chamberlain Lake through Telos Canal.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1910 to November 1910, May to November 1911, September 1931 to current year.

REVISED RECORDS.--WSP 726: Drainage area. WSP 1231: 1911.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft (184.28 m) above mean sea level. Prior to December 1911, nonrecording gage at site 3.0 mi (4.8 km) downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake, usable capacity, about 3.4 billion ft^3 (96.3 million m^3), 58 mi (93 km) upstream.

AVERAGE DISCHARGE.--46 years (water years 1932-77), 1,917 ft^3/s (54.29 m^3/s), 20.83 in/yr (529 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft^3/s (833 m^3/s) Apr. 29, 1973, gage height, 12.33 ft (3.758 m); maximum gage height, 14.43 ft (4.398 m) Apr. 3, 1976 (backwater from ice); minimum discharge, 87 ft^3/s (2.46 m^3/s) Sept. 11, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,200 ft^3/s (515 m^3/s) Apr. 24, gage height, 10.01 ft (3.051 m); minimum daily, 200 ft^3/s (5.66 m^3/s) Feb. 22 to Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2160	4010	1060	445	265	200	2100	9050	1540	3120	895	937
2	1970	4200	1100	430	260	200	2350	9350	1470	2920	839	862
3	1810	3840	886	420	255	205	2600	10300	1470	2640	918	794
4	1640	3580	820	415	250	210	2850	9130	1390	2410	948	735
5	1510	4380	760	400	250	220	3100	8450	1360	2210	982	693
6	1410	4970	720	395	245	225	3300	8520	1500	1950	2530	711
7	1340	4860	700	390	240	240	3200	9900	1660	1750	2210	731
8	1300	4470	1040	385	235	250	3000	9390	2050	1570	1460	726
9	1680	4020	1250	380	230	265	2850	7800	2140	1440	1160	675
10	3690	3510	1200	390	230	290	2650	6780	1910	1300	972	647
11	4090	3190	1100	395	230	310	2550	6630	1700	1190	868	650
12	3700	2980	1030	400	225	340	2400	6490	1770	1130	887	611
13	3350	2770	960	400	220	380	2300	6270	1930	1130	1040	557
14	3310	2590	900	390	220	435	2250	5870	1760	1720	971	608
15	4140	2440	840	380	220	500	2150	5290	1640	1680	1110	1680
16	4180	2240	790	370	215	610	2100	4930	1450	1270	1130	2040
17	3860	2130	760	360	210	780	2100	4800	1350	1100	1030	1760
18	3470	2040	720	350	210	960	2300	4840	2340	1020	1170	1590
19	3130	1960	690	340	205	1040	3800	4460	2930	967	1170	1530
20	2900	1860	660	330	205	1750	5580	3970	3210	964	1030	1390
21	3780	1730	730	320	205	1900	7020	3600	4430	990	1410	1250
22	6240	1660	610	310	200	2000	11200	3300	5750	941	1620	1140
23	5930	1590	580	305	200	1950	16500	3050	5400	871	1400	1030
24	5270	1470	560	300	200	1850	17900	2780	4750	828	1290	937
25	4690	1370	550	295	200	1850	16600	2550	4220	843	1600	881
26	4250	1260	530	290	200	1750	14600	2360	4170	921	1590	858
27	3840	1420	520	285	200	1700	13100	2140	4060	923	1380	1250
28	3500	1390	500	280	200	1650	13100	1960	3720	843	1210	1550
29	3250	1410	480	275	---	1650	12700	1870	3370	775	1100	1490
30	3070	1200	465	270	---	1700	10800	1770	3260	780	1060	1950
31	3030	---	455	270	---	1800	---	1660	---	964	1020	---
TOTAL	101490	80540	23966	10965	6225	29210	189050	169260	79700	43160	38000	32263
MEAN	3274	2685	773	354	222	942	6302	5460	2657	1392	1226	1075
MAX	6240	4970	1250	445	265	2000	17900	10300	5750	3120	2530	2040
MIN	1300	1200	455	270	200	200	2100	1660	1350	775	839	557
CFSM	2.62	2.15	.62	.28	.18	.75	5.04	4.37	2.13	1.11	.98	.86
IN.	3.02	2.40	.71	.33	.19	.87	5.63	5.04	2.37	1.28	1.13	.96

CAL YR 1976 TOTAL 1184186 MEAN 3235 MAX 20100 MIN 455 CFSM 2.59 IN 35.24
WTR YR 1977 TOTAL 803829 MEAN 2202 MAX 17900 MIN 200 CFSM 1.76 IN 23.92

NOTE.--No gage-height record Dec. 19 to Apr. 5.

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURES: April 1975 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

INSTRUMENTATION.--Water-quality monitor since April 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Dec. 4, 1977; minimum, 30 micromhos on many days during April 1976.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 160 mg/L Apr. 3; minimum daily mean, 1 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 5,830 tons (5,290 tonnes) Apr. 3; minimum daily, 1.3 tons (1.2 tonnes) Oct. 10-12, Jan. 16-30, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 95 micromhos Dec. 4; minimum, 36 micromhos Dec. 3.
WATER TEMPERATURES: Maximum, 24.5°C July 19, 21; minimum, 0.0°C on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	49	49	49	54	53	54	44	40	42	55	54	55
2	50	44	50	54	53	53	43	40	41	57	56	56
3	50	44	50	54	53	53	81	36	58	57	53	56
4	51	50	50	54	54	54	95	75	82	53	52	53
5	51	51	51	55	54	55	72	66	67	53	53	53
6	52	51	51	54	53	54	64	52	60	53	52	53
7	52	52	52	54	53	53	62	50	56	53	52	53
8	52	52	52	54	53	53	52	41	48	53	53	53
9	54	52	53	54	53	54	60	49	52	55	53	54
10	55	52	54	56	51	55	54	50	52	55	54	54
11	52	50	51	56	51	53	55	54	54	55	54	55
12	50	50	50	57	52	56	55	54	55	57	55	56
13	51	50	51	58	55	57	56	56	56	57	57	57
14	51	50	51	59	45	52	58	55	57	57	57	57
15	51	50	51	58	56	57	59	52	56	58	57	58
16	50	50	50	56	53	55	55	49	53	58	58	58
17	50	50	50	55	52	54	50	47	48	59	58	59
18	50	50	50	54	54	54	48	45	47	59	59	59
19	51	51	51	53	53	53	48	45	46	60	59	59
20	51	51	51	52	51	52	48	46	47	63	59	61
21	52	51	51	51	50	51	47	44	45	63	62	63
22	51	49	50	51	49	50	45	44	45	64	62	63
23	49	48	49	50	48	49	45	44	44	64	63	64
24	49	48	48	49	48	49	46	45	46	64	63	63
25	49	48	49	50	47	48	47	46	46	64	62	63
26	50	49	50	48	47	48	48	46	48	64	62	63
27	51	50	50	47	46	47	47	46	47	64	61	62
28	52	51	51	46	45	45	48	48	48	61	58	60
29	53	52	52	44	43	44	50	49	50	60	58	59
30	54	52	53	44	41	42	52	51	52	60	58	59
31	54	53	54	---	---	---	54	53	53	74	61	67
MONTH	55	44	51	59	41	52	95	36	52	74	52	58

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	80	75	78	78	77	77	60	58	60	45	43	44
2	81	80	80	78	77	77	60	58	60	46	45	45
3	81	79	80	77	76	76	59	58	59	46	44	45
4	79	78	79	77	76	76	58	56	58	46	45	45
5	79	78	78	77	75	76	57	55	57	47	46	46
6	78	77	77	76	75	75	57	56	56	48	47	47
7	78	77	77	77	75	75	56	55	56	48	46	47
8	78	71	75	77	76	76	56	55	55	47	47	47
9	78	74	76	76	75	75	56	55	55	47	46	46
10	78	76	77	76	75	75	55	53	54	48	47	47
11	77	76	77	76	75	75	55	53	55	52	48	49
12	77	76	76	77	75	76	55	54	55	53	52	52
13	76	76	76	76	75	75	55	54	55	53	52	52
14	76	76	76	75	73	74	55	54	55	53	53	53
15	76	76	76	73	72	73	56	54	55	53	53	53
16	76	75	75	72	70	71	54	53	53	54	52	53
17	75	75	75	71	69	70	53	52	53	53	52	52
18	75	74	75	70	68	70	54	50	52	52	52	52
19	76	74	75	70	68	69	53	51	52	52	51	51
20	76	75	76	69	67	68	53	52	53	58	52	56
21	76	76	76	68	67	68	52	49	51	58	57	57
22	---	---	---	68	67	67	49	45	47	60	58	59
23	---	---	---	68	67	67	44	40	42	62	60	61
24	77	77	77	67	66	66	40	39	39	69	65	68
25	77	76	76	67	66	65	39	38	38	72	69	70
26	78	77	77	67	65	65	39	38	39	73	70	71
27	77	76	76	66	66	66	42	39	40	74	73	73
28	77	77	77	67	65	65	43	42	42	75	74	74
29	---	---	---	66	64	65	42	42	42	73	72	72
30	---	---	---	64	62	64	43	42	42	74	72	73
31	---	---	---	63	60	63	---	---	---	75	74	74
MONTH	81	71	77	78	60	71	60	38	51	75	43	56

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	80	75	75	---	---	---	64	61	62	71	69	70
2	85	83	84	---	---	---	63	61	62	69	66	67
3	90	86	87	---	---	---	62	60	61	69	65	67
4	90	88	89	---	---	---	62	60	61	67	64	66
5	88	87	88	---	---	---	63	61	62	66	64	65
6	88	86	87	---	---	---	60	56	59	66	63	64
7	86	82	84	---	---	---	58	52	55	71	68	69
8	82	75	80	---	---	---	59	56	57	69	66	68
9	80	76	78	---	---	---	62	59	61	67	64	66
10	76	74	76	---	---	---	72	60	66	66	63	65
11	75	74	75	---	---	---	71	70	71	67	63	65
12	77	76	77	---	---	---	71	68	70	69	64	67
13	78	77	77	61	58	59	72	70	71	68	65	67
14	82	76	77	58	55	57	72	70	71	68	61	65
15	77	76	77	59	53	56	72	70	71	66	60	63
16	77	76	77	64	58	60	71	70	70	67	62	65
17	---	---	---	69	62	65	70	66	68	64	61	62
18	---	---	---	69	63	66	70	68	69	64	59	61
19	---	---	---	67	64	66	69	68	69	64	62	63
20	---	---	---	67	63	65	68	63	66	63	58	61
21	---	---	---	64	62	63	66	61	63	67	58	60
22	---	---	---	64	62	63	65	64	64	61	58	60
23	---	---	---	63	62	63	64	63	64	67	61	59
24	---	---	---	63	61	62	64	62	63	68	66	67
25	---	---	---	65	62	64	66	62	64	68	64	66
26	---	---	---	65	63	64	66	62	64	68	61	65
27	---	---	---	67	64	65	64	62	63	67	64	66
28	---	---	---	68	65	66	67	62	64	68	65	67
29	---	---	---	66	64	65	72	63	67	70	67	68
30	---	---	---	65	63	64	73	68	70	67	63	65
31	---	---	---	65	61	64	71	68	69	---	---	---
MONTH	90	74	81	69	53	63	73	52	65	71	58	65
YEAR	95	36	61									

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.5	8.5	10.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11.5	9.0	10.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3	12.0	10.0	11.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11.0	9.0	10.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5	11.5	8.5	10.0	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6	11.5	9.5	10.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
7	12.5	11.5	12.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8	12.0	9.0	10.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9.0	8.0	8.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	8.5	7.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.5	6.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	7.5	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	7.0	6.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	7.0	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	6.5	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	6.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	5.0	4.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
20	5.0	4.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	2.5	2.5	2.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	12.5	1.0	6.0	2.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.5	3.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.5	3.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	2.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.0	3.5
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.0	4.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.0	5.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.0	4.5
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	4.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	4.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	4.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	4.0	5.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	5.5	6.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.0	6.5
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	5.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	5.0	6.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	6.5	7.5
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	8.0	9.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	9.0	10.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	8.0	10.0
20	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	1.0	13.0	10.0	11.5
21	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	2.0	13.0	11.0	12.0
22	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0	16.0	13.0	14.0
23	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.0	17.0	14.5	15.5
24	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0	19.0	15.5	17.0
25	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0	19.0	17.0	18.0
26	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	1.5	17.0	15.0	16.0
27	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	2.0	15.0	13.0	14.0
28	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	2.0	13.5	8.5	11.0
29	---	---	---	0.0	0.0	0.0	2.0	0.5	1.5	15.5	11.5	13.5
30	---	---	---	0.0	0.0	0.0	3.0	0.5	2.0	17.0	15.0	16.0
31	---	---	---	0.0	0.0	0.0	---	---	---	19.0	14.0	16.5
MONTH	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.5	19.0	1.5	9.0

01011000 ALLAGASH RIVER NEAR ALLAGASH, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	16.0	18.0	---	---	---	21.5	16.5	19.0	19.0	17.0	18.5
2	18.0	16.5	17.0	---	---	---	22.5	19.0	20.5	19.5	17.5	18.5
3	18.0	15.0	16.5	---	---	---	22.0	18.5	20.0	21.0	17.0	18.5
4	16.0	14.0	15.0	---	---	---	22.0	19.5	20.5	20.0	16.0	18.0
5	14.5	13.0	14.0	---	---	---	21.5	19.0	20.0	17.0	15.0	16.0
6	13.5	12.5	13.0	---	---	---	19.5	18.0	19.0	16.0	14.5	15.0
7	13.0	12.5	13.0	---	---	---	20.0	16.5	18.5	17.0	13.5	15.0
8	13.0	12.5	13.0	---	---	---	21.0	19.0	20.0	16.0	13.0	14.5
9	13.5	11.5	13.5	---	---	---	20.0	19.0	19.5	15.5	13.0	14.0
10	16.0	13.0	14.0	---	---	---	19.5	17.0	18.5	15.5	13.0	14.5
11	14.0	13.0	14.0	---	---	---	18.0	16.0	17.0	15.0	12.5	14.0
12	15.0	13.5	14.5	---	---	---	20.5	16.0	18.0	15.0	11.0	13.0
13	23.5	15.0	16.0	20.0	19.0	19.5	21.0	17.0	19.0	13.5	11.5	12.5
14	17.5	15.5	16.5	20.5	19.0	19.5	19.0	17.0	18.0	12.0	8.5	10.5
15	20.5	17.0	18.5	21.5	18.0	20.0	19.5	16.0	17.5	10.5	7.5	9.5
16	20.5	17.5	18.5	24.0	20.0	21.5	17.5	15.5	16.5	13.0	10.5	11.5
17	---	---	---	24.0	20.0	22.0	16.5	15.5	16.0	13.5	11.5	13.0
18	---	---	---	24.0	21.0	22.5	17.5	15.5	16.5	14.0	13.0	13.5
19	---	---	---	24.5	20.5	22.5	17.5	15.0	16.5	15.0	12.5	14.0
20	---	---	---	24.0	22.0	22.5	16.5	15.0	15.5	12.5	10.5	11.5
21	---	---	---	24.5	21.0	23.0	17.0	14.5	16.0	12.0	10.0	11.0
22	---	---	---	21.0	17.0	19.0	16.0	14.5	15.0	12.5	9.5	11.0
23	---	---	---	20.0	16.0	18.0	16.0	13.5	15.0	13.5	11.0	12.0
24	---	---	---	19.0	17.5	18.0	15.5	14.0	14.5	13.5	11.0	12.0
25	---	---	---	19.0	17.5	18.0	15.0	13.5	14.5	13.5	10.0	11.5
26	---	---	---	17.5	16.0	17.0	16.0	12.5	14.5	10.5	9.5	10.0
27	---	---	---	18.5	15.0	16.5	18.0	14.5	16.5	11.5	10.0	11.0
28	---	---	---	20.5	15.0	18.0	20.5	17.0	18.5	12.0	11.0	11.5
29	---	---	---	20.5	17.0	19.0	23.0	19.0	21.0	12.0	10.5	11.0
30	---	---	---	19.0	16.0	17.5	21.0	17.5	19.5	10.5	10.0	10.5
31	---	---	---	19.5	16.0	17.5	20.0	16.0	18.0	---	---	---
MONTH	23.5	11.5	15.5	24.5	15.0	19.5	23.0	12.5	17.5	21.0	7.5	13.0
YEAR	24.5	0.0	6.0									

01011500 ST. FRANCIS RIVER AT OUTLET OF GLASIER LAKE, NEAR CONNORS, NEW BRUNSWICK
(International gaging station)

LOCATION.--Lat 47°12'25", long 68°57'25", Madawaska County, on left bank at outlet of Glasier Lake, 4.0 mi (6.4 km) upstream from mouth, and 6.5 mi (10.5 km) west of Connors.

DRAINAGE AREA.--520 mi^2 (1,347 km^2).

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1621: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 550 ft (168 m), from International Boundary Map.

REMARKS.--Records excellent.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

AVERAGE DISCHARGE.--26 years, 889 ft^3/s (25.2 m^3/s), 23.22 in/yr (590 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft^3/s (368 m^3/s) May 12, 1969, gage height, 14.01 ft (4.270 m); minimum, 68 ft^3/s (1.93 m^3/s) Sept. 11, 12, 1960, Oct. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,460 ft^3/s (240 m^3/s) Apr. 25, gage height, 11.21 ft (3.417 m); minimum, 141 ft^3/s (3.99 m^3/s) Sept. 14, gage height, 2.38 ft (0.725 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	733	1480	649	349	222	190	682	7020	1080	939	287	192
2	707	1420	635	343	219	191	862	6250	999	879	283	188
3	674	1350	626	339	221	188	1130	5900	933	798	292	184
4	638	1300	603	330	217	185	1330	5690	881	748	297	179
5	602	1320	579	323	214	190	1460	5470	833	703	313	175
6	570	1440	558	310	213	198	1520	5250	821	647	314	175
7	546	1610	542	311	211	204	1510	5490	832	599	305	173
8	536	1710	552	306	210	196	1460	6030	934	560	299	164
9	554	1680	536	304	204	186	1400	6280	1140	523	290	153
10	685	1570	520	304	203	188	1320	5860	1330	492	276	154
11	1010	1450	516	307	200	183	1230	5290	1400	458	257	158
12	1440	1330	495	307	201	190	1170	4860	1330	427	250	156
13	1640	1230	499	307	197	197	1120	4620	1230	408	241	144
14	1640	1150	485	308	207	228	1130	4510	1130	404	224	165
15	1670	1080	466	308	209	259	1120	4310	1060	386	225	222
16	1780	1010	460	303	207	296	1120	4040	979	366	213	250
17	1940	942	452	289	201	364	1150	3790	930	342	198	292
18	2050	900	431	285	198	426	1190	3760	901	322	191	342
19	2060	862	418	273	195	476	1300	3830	899	297	190	368
20	1990	832	410	266	193	506	1500	3690	908	286	182	368
21	1980	806	404	263	190	543	1840	3420	1000	277	195	347
22	2100	777	398	266	199	567	2640	3090	1170	278	200	330
23	2280	743	392	260	200	573	4500	2790	1360	265	206	308
24	2400	704	386	253	197	592	6940	2540	1480	256	216	295
25	2360	667	371	242	193	588	8300	2320	1490	239	222	275
26	2230	638	369	236	192	576	8280	2100	1420	249	220	258
27	2050	628	370	235	195	551	7830	1900	1320	251	220	284
28	1870	622	372	231	197	537	7710	1670	1220	240	218	292
29	1710	629	362	227	---	545	7840	1500	1100	230	215	318
30	1570	649	358	224	---	558	7670	1340	1010	245	217	369
31	1490	---	354	222	---	586	---	1200	---	284	204	---
TOTAL	45505	32529	14568	8831	5705	11257	88254	125810	33120	13398	7460	7278
MEAN	1468	1084	470	285	204	363	2942	4058	1104	432	241	243
MAX	2400	1710	649	349	222	592	8300	7020	1490	939	314	369
MIN	536	622	354	222	190	183	682	1200	821	230	182	144
CFSM	2.82	2.09	.90	.55	.39	.70	5.66	7.80	2.12	.83	.46	.47
IN.	3.26	2.33	1.04	.63	.41	.81	6.31	9.00	2.37	.96	.53	.52

CAL YR 1976 TOTAL 464333 MEAN 1269 MAX 7700 MIN 196 CFSM 2.44 IN 33.22
WTR YR 1977 TOTAL 393715 MEAN 1079 MAX 8300 MIN 144 CFSM 2.08 IN 28.17

01012500 ST. JOHN RIVER ABOVE FISH RIVER, AT FORT KENT, ME

LOCATION.--Lat 47°14'55", long 68°36'20", Aroostook County, Hydrologic Unit 01010001, on right bank 10 ft (3 m) downstream from International Bridge at Fort Kent and 1 mi (1.6 km) upstream from Fish River.

DRAINAGE AREA.--4,790 mi² (12,406 km²).

PERIOD OF RECORD.--April to September 1977.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April to September 1977.
WATER TEMPERATURES: April to September 1977.

INSTRUMENTATION.--Water-quality monitor since April 1977.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum during period April to September, 88 micromhos Aug. 2; minimum, 52 micromhos Apr. 21-24.
WATER TEMPERATURES: Maximum during period April to September, 24.5°C July 17, 18, 21, Aug. 2, 4, 29; minimum, 1.5°C Apr. 21, 23, 24, 29, 30.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	62	58	60
2	---	---	---	61	59	60
3	---	---	---	59	58	59
4	---	---	---	60	58	59
5	---	---	---	60	57	59
6	---	---	---	59	58	58
7	---	---	---	59	57	58
8	---	---	---	57	56	56
9	---	---	---	58	56	57
10	---	---	---	59	57	58
11	---	---	---	61	58	59
12	---	---	---	62	58	59
13	---	---	---	59	57	58
14	---	---	---	58	57	58
15	---	---	---	---	---	---
16	---	---	---	---	---	---
17	---	---	---	---	---	---
18	---	---	---	---	---	---
19	---	---	---	---	---	---
20	---	---	---	---	---	---
21	55	52	53	---	---	---
22	56	52	54	---	---	---
23	55	52	53	---	---	---
24	55	52	53	---	---	---
25	55	53	55	---	---	---
26	57	55	56	---	---	---
27	59	56	58	---	---	---
28	59	57	58	---	---	---
29	58	56	57	---	---	---
30	59	57	58	---	---	---
31	---	---	---	---	---	---
MONTH	59	52	56	62	56	58

01012500 ST. JOHN RIVER ABOVE FISH RIVER, AT FORT KENT, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	74	67	71	86	75	83	78	73	76
2	---	---	---	77	67	71	88	82	84	78	75	77
3	71	69	70	71	67	69	86	83	84	77	74	75
4	72	70	71	74	67	69	87	83	85	75	73	74
5	73	71	72	72	68	70	86	83	84	76	73	74
6	74	72	73	71	68	70	86	75	84	78	76	77
7	76	74	75	72	68	70	82	78	80	78	76	77
8	78	76	76	74	69	71	81	77	78	78	75	76
9	77	74	76	71	69	70	77	76	76	78	75	76
10	78	70	74	71	69	70	79	75	76	78	75	76
11	73	70	71	73	70	71	79	74	78	77	74	76
12	76	71	73	73	71	72	83	74	80	75	72	73
13	76	71	73	76	60	73	81	77	78	74	72	73
14	77	71	73	78	54	73	80	73	77	78	66	74
15	76	67	72	73	68	69	80	78	79	77	72	75
16	68	67	68	71	68	69	79	73	77	72	68	71
17	70	67	68	73	68	70	81	75	78	69	62	65
18	72	60	70	70	69	70	82	80	81	66	61	63
19	73	70	72	72	69	71	81	72	79	64	59	62
20	74	70	72	75	71	73	79	76	77	63	58	61
21	70	69	69	75	70	73	82	77	80	63	59	61
22	70	68	69	71	70	70	79	72	77	62	57	59
23	75	62	69	72	55	70	81	77	79	63	59	60
24	69	62	64	75	72	73	79	76	77	62	58	60
25	68	62	65	78	76	77	80	73	78	63	59	60
26	72	67	69	77	76	77	79	74	76	64	59	60
27	77	67	72	81	76	78	78	71	74	65	63	64
28	75	64	69	82	79	80	78	72	75	63	60	62
29	71	64	67	81	79	80	78	72	75	59	57	58
30	71	67	69	83	79	80	73	71	72	57	54	55
31	---	---	---	85	81	83	77	70	73	---	---	---
MONTH	78	60	71	85	54	73	88	70	79	78	54	68
PERIOD	88	52	70									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	4.0	2.5	3.0
2	---	---	---	4.0	3.5	3.5
3	---	---	---	3.5	3.0	3.0
4	---	---	---	4.5	3.0	3.5
5	---	---	---	6.5	4.0	5.0
6	---	---	---	6.0	5.5	6.0
7	---	---	---	6.0	5.5	5.5
8	---	---	---	5.5	4.5	5.0
9	---	---	---	5.0	5.0	5.0
10	---	---	---	5.0	5.0	5.0
11	---	---	---	6.5	5.0	5.5
12	---	---	---	7.5	6.0	6.5
13	---	---	---	7.5	6.5	7.0
14	---	---	---	6.5	5.5	6.0
15	---	---	---	---	---	---
16	---	---	---	---	---	---
17	---	---	---	---	---	---
18	---	---	---	---	---	---
19	---	---	---	---	---	---
20	---	---	---	---	---	---
21	2.0	1.5	1.5	---	---	---
22	2.0	2.0	2.0	---	---	---
23	2.5	1.5	2.0	---	---	---
24	2.5	1.5	2.0	---	---	---
25	2.5	2.0	2.5	---	---	---
26	3.0	2.0	2.5	---	---	---
27	3.5	2.0	3.0	---	---	---
28	3.5	2.5	3.0	---	---	---
29	2.5	1.5	2.0	---	---	---
30	3.0	1.5	2.0	---	---	---
31	---	---	---	---	---	---
MONTH	3.5	1.5	2.5	7.5	2.5	5.0

01012500 ST. JOHN RIVER ABOVE FISH RIVER. AT FORT KENT. ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	18.0	17.0	17.5	22.5	18.5	20.0	20.5	19.0	19.5
2	---	---	---	19.5	17.0	18.0	24.5	20.0	21.5	21.0	19.0	20.0
3	17.5	16.5	17.0	19.0	17.0	18.0	24.0	20.0	21.5	22.0	18.5	19.5
4	16.5	15.5	15.5	19.0	17.5	18.5	24.5	20.5	21.5	21.0	17.5	19.0
5	15.0	14.5	14.5	19.0	17.5	18.0	24.0	19.0	21.5	18.0	16.5	17.5
6	14.0	13.5	13.5	18.5	16.5	17.0	23.0	20.5	21.5	18.0	15.5	16.5
7	13.0	12.5	12.5	20.0	16.0	18.0	22.0	20.0	21.0	16.5	14.0	15.5
8	13.0	12.0	12.5	22.0	17.5	20.0	22.5	20.5	21.5	16.5	13.0	15.0
9	14.0	12.5	13.0	22.0	19.5	20.5	22.5	20.5	21.5	16.0	13.5	14.5
10	15.5	13.0	14.0	22.0	18.5	20.0	21.0	19.5	20.0	15.5	13.5	14.5
11	15.0	14.5	14.5	23.0	18.5	20.5	20.0	19.0	19.5	15.5	12.5	14.0
12	15.0	14.0	14.5	24.0	19.0	21.5	22.5	18.5	19.5	15.5	12.0	13.5
13	16.0	14.5	15.5	22.5	19.0	20.5	23.5	18.0	20.5	14.0	12.0	13.0
14	16.5	15.0	16.0	22.0	19.0	19.5	21.0	19.0	20.0	12.0	9.5	11.0
15	18.5	16.0	17.0	22.5	18.0	20.0	20.5	18.0	19.0	11.0	8.5	10.0
16	19.0	16.5	17.5	23.5	19.0	21.0	20.0	17.0	18.0	12.0	10.0	11.0
17	17.0	14.5	16.0	24.5	19.5	22.0	18.0	16.5	17.0	12.5	11.0	11.5
18	14.5	13.5	14.0	24.5	20.5	22.0	19.0	16.5	17.0	13.5	12.5	13.0
19	13.5	13.0	13.0	23.5	20.0	22.0	19.0	16.0	17.0	14.0	13.0	13.5
20	13.5	13.0	13.0	23.5	17.0	21.0	19.0	16.0	17.0	13.0	11.5	12.0
21	13.5	13.0	13.0	24.5	20.5	22.0	19.5	15.5	17.0	12.0	10.5	11.0
22	13.0	12.5	12.5	20.0	17.0	18.5	17.0	16.0	16.5	12.0	10.0	10.5
23	14.5	12.5	13.5	21.0	15.5	17.0	17.0	15.0	16.0	13.5	11.0	12.0
24	15.0	13.5	14.5	18.5	17.0	17.5	16.0	15.0	15.5	13.0	11.0	12.0
25	15.5	14.5	15.0	19.0	17.0	17.5	15.5	14.5	15.0	13.5	10.5	11.5
26	16.0	15.5	15.5	17.5	14.5	16.0	16.5	13.5	15.0	11.0	10.5	10.5
27	18.5	15.5	16.5	19.0	14.0	16.0	18.0	15.5	16.5	12.0	10.5	11.0
28	20.5	17.5	19.0	22.0	15.5	18.5	21.0	17.5	19.5	12.0	11.0	11.5
29	20.5	19.5	20.0	22.0	17.5	20.0	24.5	20.5	21.0	11.0	10.5	10.5
30	20.0	18.5	19.0	19.5	18.5	19.0	22.5	19.5	21.5	10.5	10.0	10.0
31	---	---	---	20.5	18.5	19.5	22.0	18.5	20.0	---	---	---
MONTH	20.5	12.0	15.0	24.5	14.0	19.5	24.5	13.5	19.0	22.0	8.5	13.5
PERIOD	24.5	1.5	14.5									

01013500 FISH RIVER NEAR FORT KENT, ME

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, Hydrologic Unit 01010003, on right bank 300 ft (91 m) upstream from highway bridge at Fort Kent Mills, 2 mi (3 km) upstream from mouth, and 2 mi (3 km) south of Fort Kent.

DRAINAGE AREA.--871 mi² (2,256 km²).

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft (155.869 m) above mean sea level. July 1903 to December 1908 and May to November 1911, nonrecording gage at site 10 mi (16 km) upstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Large lake area above station has not yet been developed for storage. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years (water years 1904-8, 1930-77), 1,400 ft³/s (39.65 m³/s), 21.83 in/yr (554 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Apr. 30, 1973, gage height, 12.43 ft (3.789 m); minimum, 34 ft³/s (0.963 m³/s) Aug. 29, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,920 ft³/s (253 m³/s) Apr. 28, gage height, 9.01 ft (2.746 m); minimum daily discharge, 320 ft³/s (9.06 m³/s) Feb. 23-25, Mar. 4, 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	3060	1210	640	445	335	1610	8280	2100	2300	615	678
2	1080	3040	1160	630	440	330	1800	8240	1950	2190	620	636
3	1040	2990	1110	610	430	325	2070	8310	1790	2050	630	608
4	1010	2980	991	600	425	320	2230	8120	1660	1950	640	574
5	979	3260	973	585	420	325	2360	7970	1610	1800	660	554
6	944	3300	1030	580	415	325	2520	7960	1630	1670	670	548
7	920	3330	1100	565	405	330	2550	8270	1680	1570	670	515
8	900	3280	1170	560	400	325	2560	8320	1770	1480	650	482
9	1050	3180	1220	555	390	320	2570	8000	1770	1370	620	456
10	1610	3060	1230	560	380	320	2520	7590	1710	1250	590	450
11	1660	2900	1220	585	375	320	2470	7270	1660	1160	570	411
12	1780	2760	1200	630	370	325	2430	7030	1640	1080	555	379
13	1880	2640	1150	635	365	350	2420	6790	1590	1020	535	361
14	2000	2510	1100	625	360	390	2360	6550	1560	940	515	404
15	2240	2400	1100	615	355	440	2320	6290	1570	884	495	678
16	2320	2280	1050	600	350	490	2280	6020	1480	835	490	664
17	2320	2180	1000	585	345	570	2320	5770	1460	805	480	685
18	2300	2090	970	575	340	650	2440	5570	1590	756	480	720
19	2240	1990	940	555	340	710	2590	5310	1640	733	490	736
20	2210	1880	910	545	335	780	2800	4980	1740	730	500	728
21	2720	1800	890	535	330	860	3270	4680	1930	715	520	728
22	3200	1720	850	520	330	910	4700	4380	2100	700	550	706
23	3340	1620	820	510	320	950	6250	4110	2210	670	587	699
24	3400	1540	800	505	320	990	7210	3810	2270	650	678	685
25	3410	1460	780	490	320	1000	7750	3610	2330	640	728	664
26	3360	1380	760	485	330	985	8030	3350	2430	620	720	657
27	3260	1360	740	480	345	965	8300	3040	2470	600	728	776
28	3160	1350	710	470	340	956	8700	2820	2440	590	720	760
29	3040	1310	690	465	---	989	8840	2600	2390	580	713	776
30	2920	1290	670	460	---	1080	8590	2420	2390	580	706	880
31	2870	---	650	455	---	1340	---	2250	---	600	692	---
TOTAL	66253	69940	30194	17210	10320	19305	118860	179710	56560	33518	18817	18598
MEAN	2137	2331	974	555	369	623	3962	5797	1885	1081	607	620
MAX	3410	3330	1230	640	445	1340	8840	8320	2470	2300	728	880
MIN	900	1290	650	455	320	320	1610	2250	1460	580	480	361
CFSM	2.45	2.68	1.12	.64	.42	.72	4.55	6.66	2.16	1.24	.70	.71
IN.	2.83	2.99	1.29	.74	.44	.82	5.08	7.68	2.42	1.43	.80	.79

CAL YR 1976 TOTAL 812865 MEAN 2221 MAX 8650 MIN 380 CFSM 2.55 IN 34.72
WTR YR 1977 TOTAL 639285 MEAN 1751 MAX 8840 MIN 320 CFSM 2.01 IN 27.30

NOTE.--No gage-height record July 20 to Aug. 22.

01014000 ST. JOHN RIVER BELOW FISH RIVER, AT FORT KENT, ME
(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, Hydrologic Unit 01010001, on right bank at Fort Kent and 0.2 mi (0.3 km) downstream from Fish River.

DRAINAGE AREA.--5,690 mi² (14,740 km²), approximately, not including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

RECORDS AVAILABLE.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft (149.02 m) above mean sea level. Prior to Oct. 10, 1933, nonrecording gage on opposite bank at same datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--51 years, 9,659 ft³/s (274 m³/s), 23.05 in/yr (585 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 148,000 ft³/s (4,190 m³/s) May 1, 1974, gage height, 26.95 ft (8.21 m); minimum daily, 510 ft³/s (14.4 m³/s) Mar. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 45,000 ft³/s (1,274 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 24	1400	*98100	2778	*21.89	6.672						

Minimum daily discharge, 1,240 ft³/s (35.1 m³/s) Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10000	15000	6530	3200	1670	1260	8500	52900	7580	11400	3690	3640
2	8780	17700	6180	3050	1650	1250	13000	49300	6940	10700	3550	3470
3	7770	17800	5550	2900	1630	1240	20000	54200	6540	9830	3040	3320
4	6990	16100	4210	2850	1600	1370	22000	53700	6250	8940	3280	3060
5	6320	17200	3890	2800	1580	1390	20500	49300	6460	8060	3350	2850
6	5810	23400	4310	2700	1550	1400	19000	47600	7070	7210	4770	2800
7	5440	25300	5060	2650	1520	1420	18000	53000	7550	6480	7690	2740
8	5230	23000	5650	2550	1500	1440	17000	58600	8830	5890	6250	2660
9	5940	19700	6300	2500	1460	1470	16000	51200	10400	5380	5060	2610
10	12100	16300	7500	2430	1450	1550	15500	42400	10700	4900	4170	2580
11	24200	14200	9000	2380	1430	1660	15600	37800	9860	4520	3540	2480
12	23600	13000	9500	2320	1410	1820	14800	36000	9030	4190	3200	2370
13	19300	12100	8300	2230	1400	2000	14800	34900	8850	3980	3090	2250
14	16700	11200	7100	2200	1380	2200	14400	33600	8840	4050	3170	2380
15	18800	10500	6500	2160	1380	2400	15000	30900	8760	4600	3190	4290
16	21100	9810	6000	2110	1360	3000	15600	28100	7730	4160	3400	11000
17	19900	8970	5600	2080	1350	3500	16700	26600	6860	3740	3460	12300
18	18000	8790	5200	2020	1350	4400	18700	26400	7640	3460	3860	9820
19	15800	8630	5000	2000	1350	5700	25800	25600	12500	3240	3940	7930
20	14000	8300	4750	1960	1350	6300	29700	23200	17200	3090	4060	6660
21	15700	7640	4500	1910	1340	6500	37900	20700	20800	3040	4510	5720
22	25500	6150	4300	1880	1320	6600	56500	18500	27100	2950	5650	5010
23	33200	6150	4200	1830	1310	6700	84400	16800	29300	2800	5910	4480
24	28900	5950	4000	1800	1310	6600	97500	15400	26700	2660	5600	4030
25	24200	5790	3900	1780	1300	6500	94000	14500	22200	2670	5630	3700
26	20900	5740	3800	1750	1300	6200	84000	13400	19000	2800	6150	3490
27	18300	5840	3700	1700	1290	6000	73400	12000	16900	2920	6530	3970
28	16300	6700	3600	1700	1280	5800	69600	10800	15200	2910	5740	6690
29	14800	6770	3500	1700	---	5800	69400	9870	13500	2770	4820	10600
30	13900	6660	3350	1700	---	5900	62600	9050	12300	2660	4270	10900
31	13400	---	3250	1680	---	7000	---	8340	---	3280	3900	---
TOTAL	490880	360390	164230	68520	39820	116370	1079900	964660	378590	149280	138470	149800
MEAN	15830	12010	5298	2210	1422	3754	36000	31120	12620	4815	4467	4993
MAX	33200	25300	9500	3200	1670	7000	97500	58600	29300	11400	7690	12300
MIN	5230	5740	3258	1680	1280	1240	8500	8340	6250	2660	3040	2250
CFSM	2.78	2.11	.93	.39	.25	.66	6.33	5.47	2.22	.85	.79	.88
IN.	3.21	2.36	1.07	.45	.26	.76	7.06	6.31	2.48	.98	.91	.98

CAL YR 1976 TOTAL 5499080 MEAN 15020 MAX 94000 MIN 1740 CFSM 2.64 IN 35.95
WTR YR 1977 TOTAL 4100910 MEAN 11240 MAX 97500 MIN 1240 CFSM 1.98 IN 26.81

01015800 AROOSTOOK RIVER NEAR MASARDIS, ME

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, Hydrologic Unit 01010004, on left bank 180 ft (55 m) upstream from new highway bridge, and 1.8 miles (2.9 km) downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--888 mi² (2,300 km²).

PERIOD OF RECORD.--September 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft (161.54 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Considerable regulation by Millinocket Lake, capacity 1,110,000,000 ft³ (31,400,000 m³) used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--20 years, 1,511 ft³/s (42.79 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s (609 m³/s) Apr. 25, 1958, gage height, 16.30 ft (4.968 m); minimum, 41 ft³/s (1.16 m³/s) Sept. 26, 27, 1968, gage height, 1.89 ft (0.576 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft³/s (430 m³/s) Apr. 24, gage height, 14.75 ft (4.496 m); minimum daily, 195 ft³/s (5.52 m³/s) Feb. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	2910	620	280	215	205	3600	8660	770	2260	352	319
2	969	3470	580	270	215	205	4850	8200	697	2130	556	290
3	849	3120	550	265	210	200	5200	8860	661	1880	953	266
4	753	2800	535	260	205	200	5000	8590	668	1580	901	249
5	673	3580	530	255	205	200	4650	7890	775	1340	830	236
6	632	4320	560	250	200	205	4400	7620	1250	1150	921	260
7	641	4130	590	245	200	205	4000	8100	1800	987	1170	302
8	674	3610	615	240	200	215	3800	8190	2320	861	1010	297
9	1690	3010	600	245	195	225	3600	7060	2350	763	800	266
10	4940	2510	570	255	195	230	3450	6040	1950	687	625	246
11	6260	2200	540	275	210	250	3300	5800	1520	617	503	253
12	5150	1870	520	285	230	265	3150	5620	1670	558	465	279
13	3980	1830	500	295	230	290	3050	5340	2370	555	524	259
14	3220	1640	485	300	225	315	3000	5070	2410	884	517	287
15	2910	1500	470	295	220	345	2950	4660	2240	1350	524	976
16	2670	1310	455	290	230	385	3000	4200	2060	1200	600	1590
17	2360	1230	440	285	240	440	3100	3720	1640	932	534	1360
18	2050	1200	425	275	235	520	3600	3450	2640	752	542	1070
19	1810	1140	410	270	235	630	4400	3100	4180	616	543	910
20	1630	1080	395	270	230	750	5560	2840	4500	536	477	782
21	2260	858	385	260	230	950	7020	2460	5790	477	479	652
22	5730	830	370	255	225	1150	9450	2140	6840	416	559	554
23	6510	820	360	250	220	1300	12900	1860	6820	361	544	482
24	5430	800	350	245	220	1250	15000	1670	5980	322	526	427
25	4390	750	340	240	215	1180	14700	1520	4820	305	677	382
26	3720	720	330	235	215	1150	13200	1340	3880	310	853	353
27	3230	780	320	230	210	1120	11600	1170	3540	303	757	539
28	2780	800	310	230	210	1150	10900	1020	3060	283	615	1130
29	2440	745	300	225	---	1300	10900	972	2470	257	505	1380
30	2230	680	290	220	---	1700	10000	947	2240	237	425	2710
31	2140	---	285	220	---	2400	---	864	---	253	363	---
TOTAL	85861	56243	14030	8015	6070	20930	193330	138993	83911	25162	19650	19106
MEAN	2770	1875	453	259	217	675	6444	4484	2797	812	634	637
MAX	6510	4320	620	300	240	2400	15000	8860	6840	2260	1170	2710
MIN	632	680	285	220	195	200	2950	864	661	237	352	236

CAL YR 1976 TOTAL 895448 MEAN 2447 MAX 20100 MIN 265
WTR YR 1977 TOTAL 671301 MEAN 1839 MAX 15000 MIN 195

NOTE.--No gage-height record Mar. 6 to Apr. 11.

01016500 MACHIAS RIVER NEAR ASHLAND, ME

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, Hydrologic Unit 01010004, on right bank 100 ft (30 m) upstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.5 mi (2.4 km) west of Ashland.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--June 1951 to current year.

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--26 years, 572 ft³/s (16.20 m³/s), 23.54 in/yr (598 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft³/s (470 m³/s) June 29, 1954, gage height, 11.94 ft (3.639 m), from rating curve extended above 7,900 ft³/s (224 m³/s); minimum, 5.4 ft³/s (0.15 m³/s) Sept. 17, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft³/s (90.6 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 24	1500	*6430	182	*6.46	1.969	May 7	2200	3370	95.4	4.53	1.381
May 3	2100	3390	96	4.54	1.384						

Minimum discharge not determined, occurred during period of ice effect; minimum daily, 45 ft³/s (1.27 m³/s) Mar. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	506	1130	214	100	61	47	970	2960	272	617	126	259
2	440	1290	205	98	60	46	1550	2900	245	567	253	240
3	393	1190	195	95	59	46	2000	3320	232	502	276	225
4	355	1090	190	91	58	45	1900	3280	222	431	235	205
5	324	1400	185	88	57	46	1700	3110	223	378	296	191
6	300	1590	200	85	56	47	1500	3070	297	335	842	203
7	284	1540	220	83	55	48	1300	3260	384	294	1110	206
8	286	1340	260	80	54	49	1200	3290	539	262	996	190
9	443	1110	255	78	54	50	1100	2950	554	238	711	173
10	1290	838	245	76	53	53	1000	2500	488	216	503	163
11	1620	742	235	90	53	57	940	2320	420	195	395	175
12	1570	625	225	89	52	62	900	2210	453	177	406	177
13	1330	646	215	88	51	68	920	2160	527	184	436	158
14	1140	619	210	85	51	78	950	2070	532	430	408	201
15	1110	535	205	83	51	88	1000	1890	472	438	465	606
16	1050	475	195	82	50	105	1100	1710	410	332	442	780
17	960	452	185	80	49	135	1100	1620	376	271	405	699
18	833	421	175	78	49	170	1210	1620	678	229	426	575
19	723	407	170	77	48	215	1380	1500	973	197	391	494
20	626	380	160	75	48	265	1730	1320	1220	195	339	428
21	1110	310	155	74	48	320	2340	1120	1490	183	467	373
22	2460	307	150	72	47	400	3590	941	1870	164	509	332
23	2690	318	145	71	47	520	5450	801	2140	146	457	302
24	2400	313	135	70	47	475	6350	677	1940	134	422	278
25	1900	292	130	68	46	425	5920	580	1510	130	474	256
26	1480	256	125	67	49	390	4900	511	1200	136	477	241
27	1190	316	125	66	49	365	4030	443	1030	132	429	367
28	993	323	120	65	48	350	3810	394	877	119	376	476
29	850	303	115	64	---	500	3820	369	725	106	333	536
30	774	245	110	63	---	520	3440	342	648	103	301	859
31	775	---	105	62	---	770	---	311	---	111	279	---
TOTAL	32205	20803	5559	2443	1450	6755	69100	55549	22947	7952	13985	10368
MEAN	1039	693	179	78.8	51.8	218	2303	1792	765	257	451	346
MAX	2690	1590	260	100	61	770	6350	3320	2140	617	1110	859
MIN	284	245	105	62	46	45	900	311	222	103	126	158
CFSM	3.15	2.10	.54	.24	.16	.66	6.98	5.43	2.32	.78	1.37	1.05
IN.	3.63	2.35	.63	.28	.16	.76	7.79	6.26	2.59	.90	1.58	1.17

CAL YR 1976 TOTAL 368690 MEAN 1007 MAX 9700 MIN 86 CFSM 3.05 IN 41.56
WTR YR 1977 TOTAL 249116 MEAN 683 MAX 6350 MIN 45 CFSM 2.07 IN 28.08

01017000 AROOSTOOK RIVER AT WASHBURN, ME

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, Hydrologic Unit 01010004, on right bank 50 ft (15 m) upstream from Bangor and Aroostook Railroad bridge, 0.1 mi (0.2 km) downstream from Salmon Brook, and 1.0 mi (1.6 km) south of railroad station at Washburn.

DRAINAGE AREA.--1,652 mi^2 (4,279 km^2).

PERIOD OF RECORD.--August 1930 to current year.

REVISED RECORDS.--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft (133.015 m) above mean sea level. Prior to Oct. 1, 1948, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for winter period, which are fair. Considerable regulation by Squa Pan Lake, capacity, 2,893,000,000 ft^3 (81,900,000 m^3), and by Millinocket Lake, capacity, 1,110,000,000 ft^3 (31,400,000 m^3) used for power. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--47 years, 2,645 ft^3/s (74.91 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,100 ft^3/s (1,220 m^3/s) Apr. 30, 1973, gage height, 13.68 ft (4.170 m, present datum); maximum gage height, 20.91 ft (6.373 m) Dec. 24, 1973 (backwater from ice); minimum daily discharge, 75 ft^3/s (2.12 m^3/s) Feb. 13-15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,200 ft^3/s (770 m^3/s) Apr. 25, gage height, 10.85 ft (3.307 m); minimum daily discharge, 427 ft^3/s (12.1 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2480	5400	1220	530	525	810	6000	14500	1290	3530	471	827
2	2090	6790	1150	520	520	800	8600	13700	1150	3250	922	770
3	1730	6250	1080	500	515	800	9500	14600	1050	2810	1400	708
4	1610	5670	1040	490	510	800	9900	14500	1010	2420	1500	635
5	1540	7050	1020	485	505	790	9500	13700	1130	2150	2050	591
6	1390	8280	1050	475	500	790	8500	13400	1640	1960	4090	609
7	1350	7920	1120	470	500	790	7300	13900	2670	1700	3850	626
8	1360	6960	1170	465	495	810	6400	14200	3630	1460	3150	635
9	2060	5840	1150	465	490	840	5800	12700	3750	1190	2410	600
10	7200	4790	1090	480	500	870	5300	10900	3210	1050	1780	549
11	10000	4030	1050	505	580	910	4750	10200	2600	948	1390	541
12	8930	3450	1010	560	645	960	4600	10100	2400	869	1470	549
13	7100	3330	970	605	640	1000	4400	9850	3030	1110	1480	700
14	5840	3100	935	675	640	1050	4400	9490	3430	1540	1480	778
15	5400	2880	900	685	630	1100	4550	8790	3340	2320	1770	1960
16	5020	2820	870	680	780	1150	5000	8000	3050	2080	1600	3150
17	4430	2530	845	670	900	1250	6900	7380	2630	1540	1520	2880
18	3960	2500	820	660	880	1400	9000	7100	3810	1270	1530	2450
19	3400	2340	790	650	870	1500	9600	6630	6160	1180	1410	2120
20	3130	2110	760	635	865	1620	9400	5880	7130	895	1250	1910
21	4160	1710	740	620	860	1740	12100	5060	8150	999	1530	1580
22	9420	1480	715	600	850	1870	16300	4290	9550	739	1850	1380
23	11800	1410	680	590	840	1950	21700	3650	10000	635	1760	1230
24	10100	1350	670	575	830	1950	26100	3100	9200	574	1570	1060
25	8240	1290	645	565	820	1910	26400	2720	7640	533	1740	887
26	6870	1210	630	560	820	1880	23100	2370	6210	525	1960	852
27	6000	1480	615	550	820	1830	20400	2020	5460	517	1800	1240
28	5120	1530	595	545	820	1900	19200	1730	4890	501	1430	1850
29	4490	1400	580	535	---	2100	18700	1570	4010	456	1280	2410
30	4020	1320	565	530	---	2850	17100	1500	3630	427	1150	4220
31	3910	---	545	525	---	4200	---	1420	---	441	984	---
TOTAL	154150	108220	27020	17400	19150	44220	340500	248950	126850	41619	53577	40297
MEAN	4973	3607	872	561	684	1426	11350	8031	4228	1343	1728	1343
MAX	11800	8280	1220	685	900	4200	26400	14600	10000	3530	4090	4220
MIN	1350	1210	545	465	490	790	4400	1420	1010	427	471	541

CAL YR 1976 TOTAL 1652090 MEAN 4514 MAX 31000 MIN 545
WTR YR 1977 TOTAL 1221953 MEAN 3348 MAX 26400 MIN 427

NOTE.--No gage-height record Jan. 20 to Feb. 22.

01017100 AROOSTOOK RIVER AT CARIBOU, ME
(National stream-quality accounting network station)

LOCATION.--Lat 46°50'57", long 68°00'12", Aroostook County, Hydrologic Unit 01010004, on left bank of powerhouse intake pool of Maine Public Service Corporation at Caribou Dam.

DRAINAGE AREA.--1,943 mi² (5,030 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 194 micromhos July 20, 1976; minimum, 41 micromhos May 5, 9, 1976.
WATER TEMPERATURES: Maximum, 25.0°C June 24, 25, 1976; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 138 micromhos Dec. 9; minimum, 49 micromhos June 23-25.
WATER TEMPERATURES: Maximum, 24.5°C July 18-21; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM .7UM-MF (COL./100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
NOV												
02...	1400	7990	82	6.9	2.0	--	12.6	91	8320	35	--	--
DEC												
08...	1600	1360	140	6.9	.0	2	12.0	82	100	34	52	15
16...	1800	1030	95	6.7	.0	--	12.0	82	--	--	--	--
JAN												
20...	0900	758	105	6.8	.0	--	7.0	48	821	--	--	--
FEB												
22...	1330	991	110	6.8	.5	5	10.0	69	170	380	34	1
APR												
01...	1300	6940	120	6.8	.0	--	11.0	75	290	>2000	--	--
MAY												
23...	1315	4580	65	7.0	17.0	2	9.0	93	816	820	28	9
JUL												
21...	1800	1180	100	7.4	20.0	--	8.0	87	40	410	--	--
AUG												
24...	1000	2090	100	7.4	16.5	--	--	--	310	530	--	--
30...	1315	1480	92	7.3	21.5	3	8.1	91	240	2600	47	14
SEP												
28...	1100	2470	120	7.9	11.5	--	--	--	420	1100	--	--

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	16	2.9	3.2	12	.2	1.1	45	0	37	9.1	8.1	5.1
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
22...	11	1.6	2.9	15	.2	.9	40	0	33	10	5.7	2.9
APR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	8.5	1.7	1.3	9	.1	.5	23	0	19	3.7	5.6	1.2
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
24...	--	--	--	--	--	--	--	--	--	--	--	--
30...	15	2.2	2.1	9	.1	.8	40	0	33	3.2	6.8	3.2
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)
NOV												
02...	--	--	--	--	--	.30	.45	.75	3.3	.07	--	--
DEC												
08...	.1	5.6	78	64	286	.62	.25	.87	3.9	.06	2	1
16...	--	--	--	--	--	.45	.25	.70	3.1	.07	--	--
JAN												
20...	--	--	--	--	--	.42	2.1	2.5	11	.08	--	--
FEB												
22...	.1	4.9	57	50	153	.35	.67	1.0	4.5	.07	0	0
APR												
01...	--	--	--	--	--	.62	.90	1.5	6.7	.13	--	--
MAY												
23...	.0	2.9	48	33	594	.17	.26	.43	1.9	.02	1	0
JUL												
21...	--	--	--	--	--	.18	.47	.65	2.9	.03	--	--
AUG												
24...	--	--	--	--	--	.23	.28	.51	2.3	.03	--	--
30...	.0	3.6	74	54	296	.25	.34	.59	2.6	.04	2	1
SEP												
28...	--	--	--	--	--	.39	.44	.83	3.7	.04	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	1	1	0	1	<10	0	<10	0	0	0	0	0
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
22...	0	0	0	0	<10	0	<10	0	0	0	0	0
APR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	1	0	0	0	20	4	16	0	0	0	3	3
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
24...	--	--	--	--	--	--	--	--	--	--	--	--
30...	1	0	0	0	10	8	2	0	0	0	6	6
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	0	190	70	17	9	8	40	30	10	<.5	.0	<.5
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
22...	0	140	80	25	19	6	20	0	20	<.5	.0	<.5
APR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	0	180	80	13	9	4	30	10	20	.0	.0	.0
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
24...	--	--	--	--	--	--	--	--	--	--	--	--
30...	0	120	80	14	8	6	40	0	40	.0	.0	.0
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV									
02...	--	--	--	--	--	--	--	20	431
DEC									
08...	0	0	0	10	10	0	8.2	10	37
16...	--	--	--	--	--	--	--	13	36
FEB									
22...	0	0	0	0	0	0	8.5	1	2.7
APR									
01...	--	--	--	--	--	--	--	26	487
MAY									
23...	0	0	0	60	50	10	--	10	124
JUL									
21...	--	--	--	--	--	--	--	6	19
AUG									
24...	--	--	--	--	--	--	--	16	90
30...	0	0	0	50	50	0	5.2	9	36
SEP									
28...	--	--	--	--	--	--	--	18	120

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ATRAZINE (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)
DEC												
08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR												
01...	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND
MAY												
23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG												
30...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHOXYCHLOR (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC											
08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR											
01...	ND	--	ND	--	--	--	ND	--	--	--	--
MAY											
23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG											
30...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/SQ M) DRY WEIGHT	BIOMASS (G/SQ M) ASH WEIGHT	CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
NOV 02	41	--	--	0.339	0.072	1360	ARTIFICIAL SUBSTRATE

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1976 TO JANUARY 1977

DATE	NOV 2.76	DEC 8.76	DEC 16.76	JAN 20.77
TIME	1400	1100	1800	0900
TOTAL CELLS/ML	1500	84	610	5400
DIVERSITY: DIVISION	0.2	0.4	0.5	0.1
.CLASS	0.2	0.4	0.6	0.1
..ORDER	0.5	0.4	1.1	0.1
...FAMILY	0.6	0.4	1.3	0.1
....GENUS	0.6	0.4	1.3	0.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	*	0	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	*	0
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	*	0
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	6	1	--	-
....MELOSIRA	--	-	--	-	12	2	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	2	3	15	2	*	0
...CYMBELLACEAE								
....CYMBELLA	--	-	*	0	*	0	--	-
...DIATOMACEAE								
....DIATOMA	10	1	*	0	6	1	*	0
...FRAGILARIACEAE								
....FRAGILARIA	20	1	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	*	0	--	-	*	0
...NAVICULACEAE								
....NAVICULA	--	-	--	-	12	2	*	0
...NITZSCHIACEAE								
....NITZSCHIA	--	-	--	-	6	1	--	-
...TABELLARIACEAE								
....TABELLARIA	30	2	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	6	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	81	5	--	-	60	10	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	190	4
....OSCILLATORIA	1400#	91	80#	95	490#	79	5200#	95
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	2	3	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

PHYTOPLANKTON ANALYSES, FEBRUARY 1977 TO SEPTEMBER 1977

DATE TIME	FEB 22,77 1415	JUL 21,77 1800	AUG 24,77 1000	AUG 30,77 1315
TOTAL CELLS/ML	2000	2900	890	410
DIVERSITY: DIVISION	0.2	1.4	0.4	1.2
.CLASS	0.2	1.4	0.4	1.3
..ORDER	0.2	1.9	1.1	2.1
...FAMILY	0.2	2.7	1.1	3.1
....GENUS	0.2	0.0	1.1	3.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	110	4	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	43	10
...MICRACTINIACEAE								
....ACANTHOSPHAERA	--	-	*	0	--	-	--	-
....MICRACTINIUM	--	-	42	1	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	28	1	--	-	11	3
....DICTYOSPHAERIUM	--	-	290	10	--	-	59	14
....KIRCHNERIELLA	--	-	*	0	--	-	--	-
....OOCYSTIS	--	-	35	1	--	-	22	5
....TETRAEDRON	--	-	*	0	--	-	--	-
....WESTELLA	--	-	110	4	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	250	9	--	-	--	-
....SCENEDESMUS	--	-	580#	20	--	-	65#	16
..TETRASPORALES								
...COCCOMYXACEAE								
....DACTYLOTHECE	44	2	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE	--	-	*	0	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	5	1
...VOLVOCACEAE								
....GONIUM	--	-	--	-	--	-	86#	21
....PANDORINA	--	-	110	4	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	21	1	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	*	0	--	-	--	-
....MELOSIRA	--	-	42	1	34	4	22	5
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	35	1	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	11	3
...CYMBELLACEAE								
....CYMBELLA	--	-	*	0	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	*	0	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	11	3
....SYNEDRA	--	-	*	0	13	2	11	3
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	*	0	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	28	1	--	-	22	5
...NITZSCHIACEAE								
....NITZSCHIA	--	-	28	1	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	--	-	5	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	--	-	520#	18	670#	76	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	99	3	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	2000#	98	--	-	160#	18	--	-
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....GOMPHOSPHAERIA	--	-	380	13	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	57	2	--	-	16	4
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	7	1	11	3
....TRACHELOMONAS	--	-	21	1	--	-	16	4

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	85	80	83	101	94	98	110	105	108	114	108	111
2	85	80	83	82	68	77	116	109	113	114	108	110
3	93	83	88	80	76	77	123	117	121	---	---	---
4	91	87	89	89	76	79	121	118	120	---	---	---
5	91	88	90	93	84	89	124	116	120	---	---	---
6	97	89	93	84	75	79	122	113	116	---	---	---
7	101	92	96	75	72	74	113	109	110	---	---	---
8	102	95	98	77	73	74	136	112	122	---	---	---
9	111	96	104	80	76	78	138	116	125	---	---	---
10	124	89	110	87	79	83	117	112	114	125	116	121
11	86	68	74	89	86	88	114	102	107	---	---	---
12	68	66	67	94	89	92	110	97	101	---	---	---
13	70	67	68	98	92	95	104	101	102	120	112	117
14	80	70	74	98	94	97	108	103	106	117	111	114
15	83	80	81	99	96	98	108	86	101	116	113	114
16	81	80	81	107	99	104	---	---	---	---	---	---
17	82	80	81	103	93	97	---	---	---	---	---	---
18	84	81	83	96	95	96	---	---	---	---	---	---
19	87	84	85	98	95	96	110	101	105	---	---	---
20	92	87	90	99	96	98	109	104	108	---	---	---
21	110	86	96	107	99	102	119	108	112	110	102	107
22	108	74	90	111	107	109	122	112	117	113	106	110
23	73	66	68	118	111	116	115	105	110	115	108	113
24	66	65	66	118	105	111	115	105	109	112	103	107
25	69	66	67	108	103	105	112	104	108	110	103	106
26	73	69	71	108	103	106	---	---	---	107	103	105
27	76	73	75	113	105	110	119	107	104	111	105	108
28	81	74	78	112	109	110	127	123	125	112	106	110
29	85	79	81	109	106	107	---	---	---	117	108	114
30	89	85	87	110	105	107	---	---	---	120	112	116
31	95	88	90	---	---	---	---	---	---	115	111	113
MONTH	124	65	83	118	68	95	138	86	112	125	102	112

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	112	108	110	---	---	---	---	---	---	---	---	---
2	119	111	115	---	---	---	---	---	---	---	---	---
3	119	113	117	---	---	---	92	71	84	---	---	---
4	122	113	116	---	---	---	86	81	83	---	---	---
5	124	117	121	---	---	---	81	77	79	---	---	---
6	122	114	118	---	---	---	78	75	76	---	---	---
7	113	107	111	---	---	---	---	---	---	---	---	---
8	114	107	111	---	---	---	75	71	73	---	---	---
9	118	113	115	---	---	---	74	69	72	---	---	---
10	119	113	116	---	---	---	---	---	---	---	---	---
11	123	112	119	---	---	---	---	---	---	---	---	---
12	118	111	115	---	---	---	---	---	---	---	---	---
13	122	109	117	---	---	---	85	82	83	---	---	---
14	110	101	107	---	---	---	86	82	84	---	---	---
15	109	102	107	---	---	---	86	78	82	---	---	---
16	115	106	111	---	---	---	86	82	84	---	---	---
17	115	109	111	---	---	---	84	79	81	---	---	---
18	115	110	113	---	---	---	81	76	78	---	---	---
19	115	108	112	---	---	---	---	---	---	---	---	---
20	115	102	110	---	---	---	---	---	---	---	---	---
21	108	102	104	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	60	54	57	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	124	101	113	---	---	---	92	54	78	---	---	---

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	72	69	71	116	114	116	102	94	97
2	86	79	82	70	65	67	117	113	115	111	102	106
3	85	83	84	69	63	66	120	117	119	116	111	113
4	96	84	90	68	61	65	117	96	107	116	113	115
5	103	91	97	70	63	66	95	89	92	117	114	116
6	107	102	105	73	66	70	103	91	97	120	117	119
7	102	89	95	71	66	69	91	74	80	126	120	123
8	90	75	84	75	65	71	77	73	76	128	125	126
9	74	67	70	76	68	73	76	72	74	128	122	124
10	68	64	66	81	75	78	78	74	76	122	116	118
11	71	63	67	83	79	81	84	77	81	122	116	120
12	73	66	70	86	79	83	97	85	90	125	122	124
13	76	71	74	91	84	86	105	97	102	123	119	120
14	72	64	67	94	89	91	102	96	99	121	112	117
15	76	65	70	99	84	92	100	95	98	126	111	116
16	72	67	70	83	65	72	98	91	95	122	80	97
17	73	63	68	64	60	63	95	91	93	79	70	72
18	87	70	79	68	64	66	97	93	95	78	70	73
19	85	63	73	72	68	70	97	93	96	82	73	77
20	61	59	60	73	68	71	95	92	93	82	77	79
21	59	56	57	91	74	81	103	93	99	81	78	79
22	56	50	53	93	88	91	103	93	101	82	77	80
23	50	49	49	96	89	93	95	91	92	87	81	84
24	50	49	50	105	94	97	93	90	91	91	85	87
25	52	49	50	111	104	107	99	93	96	93	88	91
26	58	51	54	113	108	111	97	84	93	97	92	95
27	61	57	59	114	113	114	84	80	82	111	96	100
28	61	58	60	117	114	116	84	80	82	114	99	111
29	63	57	60	117	114	116	---	---	---	98	84	89
30	73	60	67	116	112	113	---	---	---	93	80	87
31	---	---	---	116	113	114	97	91	95	---	---	---
MONTH	107	49	70	117	60	85	120	72	94	128	70	102
PERIOD	138	49	94									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.5	10.5	10.5	3.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
2	11.5	10.0	10.5	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
3	12.5	11.0	11.5	2.0	1.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0
4	12.5	11.5	12.0	2.0	1.0	1.5	1.0	0.5	0.5	0.5	0.0	0.0
5	12.0	11.0	11.5	2.5	2.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
6	12.0	11.5	12.0	3.0	3.0	3.0	0.5	0.0	0.5	0.0	0.0	0.0
7	13.5	12.5	13.0	3.0	2.5	2.5	1.0	0.0	0.5	0.0	0.0	0.0
8	13.5	12.0	13.0	2.5	2.0	2.0	0.5	0.0	0.5	0.0	0.0	0.0
9	12.0	10.0	11.0	2.0	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
10	10.0	9.0	9.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
11	9.0	7.5	8.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
12	7.5	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	7.5	6.5	7.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
14	7.0	7.0	7.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
15	7.0	6.5	7.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
16	7.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	6.5	6.0	6.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
18	6.5	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	5.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	5.0	5.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
21	5.5	5.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
22	5.5	5.0	5.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
23	5.0	4.5	4.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
24	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
25	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	3.5	3.0	3.5	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
MONTH	13.5	1.5	7.0	3.5	0.0	0.5	1.0	0.0	0.0	0.5	0.0	0.0

01017100 AROOSTOOK RIVER AT CARIBOU, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
2	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
3	0.5	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
4	0.5	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
5	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
6	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
7	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
8	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
9	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
10	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
11	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
12	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
13	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
14	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
15	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
16	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
17	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---
18	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
19	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
20	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
21	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	0.5	0.0	0.0	---	---	---	0.0	0.0	0.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	18.5	17.0	17.5	20.0	18.5	19.5	19.0	18.0	18.5
2	20.5	18.5	19.0	19.0	17.5	18.0	21.0	19.5	20.0	19.0	18.5	19.0
3	18.0	17.0	17.5	19.0	18.5	19.0	22.0	20.5	21.0	19.0	18.0	18.5
4	17.0	15.5	16.0	19.5	19.0	19.0	22.5	22.0	22.0	19.0	18.0	18.5
5	15.5	14.0	14.5	19.5	19.0	19.0	22.5	21.5	22.5	18.0	17.5	18.0
6	14.0	13.0	13.5	19.0	17.0	18.0	21.0	19.5	20.0	17.5	15.5	16.5
7	13.0	12.0	12.5	19.0	17.0	17.5	20.0	19.0	19.5	15.0	14.5	15.0
8	13.0	11.5	12.0	20.5	19.0	19.5	20.5	20.0	20.0	15.0	14.0	14.5
9	13.0	12.5	13.0	21.0	20.0	20.5	20.5	20.0	20.5	15.0	14.5	15.0
10	14.5	12.5	13.0	20.5	19.5	20.0	20.0	19.5	20.0	14.5	14.0	14.5
11	15.0	14.5	14.5	20.5	19.5	20.0	19.5	18.5	19.0	14.0	13.5	14.0
12	15.5	14.5	15.0	21.5	19.5	21.0	18.5	17.0	17.5	14.5	13.5	14.0
13	16.0	15.0	15.5	22.0	20.5	21.5	20.0	18.5	19.0	14.0	13.0	13.5
14	16.5	15.5	16.0	20.5	20.0	20.5	20.0	19.5	20.0	13.0	11.0	12.0
15	17.5	16.0	16.5	21.0	20.5	20.5	20.0	19.5	19.5	11.0	9.0	10.0
16	17.5	16.5	17.0	23.5	20.5	22.0	19.5	18.0	18.5	11.0	10.0	10.5
17	17.0	15.0	16.5	24.0	23.5	23.5	18.0	17.0	17.5	12.0	11.0	11.5
18	15.0	13.0	14.0	24.5	23.5	24.0	17.0	16.0	16.5	13.0	12.5	13.0
19	13.0	12.0	12.5	24.5	23.0	24.0	17.0	16.5	17.0	13.5	13.0	13.0
20	12.0	11.5	12.0	24.5	23.0	24.0	17.5	16.5	17.0	13.0	12.0	12.5
21	12.0	12.0	12.0	24.5	23.5	24.0	17.0	16.5	16.5	12.0	11.0	11.0
22	12.0	12.0	12.0	24.0	22.0	23.5	17.0	15.5	16.5	11.0	10.5	10.5
23	14.0	11.5	12.5	21.0	19.0	20.0	16.5	15.0	15.5	11.5	10.5	11.0
24	15.0	13.5	14.0	19.5	19.0	19.5	16.5	15.5	16.5	12.0	11.0	11.5
25	15.5	14.5	15.0	19.0	18.5	18.5	15.5	14.5	15.0	12.0	11.0	11.5
26	15.5	15.5	15.5	18.5	17.5	18.0	15.5	14.5	15.0	11.5	10.5	11.0
27	18.0	15.5	16.0	18.0	17.0	17.5	17.0	15.5	16.5	11.0	10.0	10.5
28	19.5	17.5	18.5	18.5	16.5	17.5	19.5	17.0	18.0	12.0	10.5	11.5
29	20.0	19.5	19.5	20.0	18.5	19.5	---	---	---	12.0	11.0	11.5
30	20.0	18.5	19.0	20.0	19.0	19.5	---	---	---	11.0	10.0	10.5
31	---	---	---	19.5	18.5	19.0	20.5	18.5	19.5	---	---	---
MONTH	20.5	11.5	15.0	24.5	16.5	20.0	22.5	14.5	18.5	19.0	9.0	13.5
PERIOD	24.5	0.0	8.0									

01017900 MARLEY BROOK NEAR LUDLOW, ME

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, Hydrologic Unit 01010005, on left bank at upstream entrance of culvert under U.S. Route 2, 2,200 ft (671 m) upstream from mouth, and 1.1 mi (1.8 km) west of Ludlow.

DRAINAGE AREA.--1.47 mi^2 (3.81 km^2).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 610 ft (186 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years (water years 1965-77), 2.73 ft^3/s (0.077 m^3/s), 25.22 in/yr (641 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 335 ft^3/s (9.49 m^3/s) July 5, 1973, gage height, 10.36 ft (3.158 m); minimum discharge, 0.01 ft^3/s (<0.001 m^3/s) Sept. 8, 11-14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft^3/s (0.71 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 9	2300	*89.5	2.53	*6.11	1.862	Apr. 22	2230	35	0.991	4.90	1.494
Oct. 21	1130	43.8	1.24	5.12	1.561						

Minimum discharge, 0.01 ft^3/s (<0.001 m^3/s) part or all of each day Sept. 8, 11-14, gage height, 3.47 ft (1.058 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	9.1	.93	.84	.56	1.2	20	7.3	.36	4.9	.23	.05
2	.74	5.7	.81	.82	.56	1.0	19	9.1	.51	3.7	.61	.05
3	.67	4.4	.72	.80	.56	.98	17	8.5	1.0	2.4	.32	.03
4	.54	8.1	.64	.79	.55	.91	14	6.2	1.2	1.8	.21	.02
5	.54	15	.59	.78	.55	.91	11	5.5	3.5	1.5	.20	.02
6	.48	8.8	.54	.77	.55	.91	7.8	5.6	5.4	1.1	.40	.09
7	.48	6.6	1.4	.76	.54	.88	6.3	9.0	5.8	.95	.34	.05
8	4.2	5.1	7.5	.75	.54	.83	5.2	5.1	6.2	.76	.21	.01
9	22	4.2	4.2	.75	.54	.86	4.4	3.9	3.6	.54	.18	.02
10	24	3.2	2.1	.99	.54	1.8	3.8	4.1	2.3	.51	.15	.02
11	7.5	2.7	1.5	.88	.54	3.0	3.4	4.1	1.9	.41	.12	.01
12	4.9	2.4	1.2	.74	.54	3.6	4.2	3.2	3.1	.35	.12	.01
13	3.8	2.2	1.1	.67	.54	4.4	6.2	4.1	3.2	.38	.08	.01
14	5.3	2.0	1.1	.65	.78	5.5	7.5	3.8	2.1	.40	.09	.97
15	5.3	2.0	.97	.64	.60	6.4	7.6	3.7	1.7	.28	.16	1.8
16	3.4	1.6	.93	.64	.54	7.6	10	2.7	1.2	.21	.08	.89
17	2.9	1.6	.90	.63	.54	7.9	16	2.3	1.9	.19	.18	.58
18	2.5	1.6	.88	.62	.54	6.8	19	2.2	9.6	.18	.15	.54
19	2.2	1.6	.86	.62	.54	4.9	19	1.7	7.5	.20	.07	.51
20	2.0	1.6	.84	.61	.54	4.3	20	1.4	14	.19	.05	.33
21	22	1.2	1.6	.60	.54	4.0	25	1.1	14	.15	.08	.24
22	11	1.1	1.4	.59	.54	4.0	28	.97	12	.12	.48	.19
23	6.8	.99	1.2	.58	.53	4.0	25	.83	7.4	.10	1.5	.20
24	4.9	.81	1.1	.58	.52	3.9	17	.57	4.7	.10	1.3	.17
25	4.6	.74	.99	.57	.52	3.6	16	.53	4.5	.10	.97	.12
26	5.1	.67	.96	.57	.52	4.1	12	.48	13	.12	.34	.10
27	4.0	.88	.93	.57	.52	5.9	12	.56	8.6	.12	.18	5.0
28	3.2	1.3	.91	.56	1.0	7.2	16	.54	4.8	.12	.15	1.7
29	3.0	1.3	.89	.56	---	8.4	12	1.2	4.0	.12	.10	6.5
30	2.7	1.1	.87	.56	---	9.7	7.7	.86	9.3	.12	.07	7.7
31	4.9	---	.85	.56	---	14	---	.48	---	.12	.06	---
TOTAL	166.53	99.59	41.41	21.05	15.88	133.48	392.1	101.62	158.37	22.24	9.18	27.93
MEAN	5.37	3.32	1.34	.68	.57	4.31	13.1	3.28	5.28	.72	.30	.93
MAX	24	15	7.5	.99	1.0	14	28	9.1	14	4.9	1.5	7.7
MIN	.48	.67	.54	.56	.52	.83	3.4	.48	.36	.10	.05	.01
CFSM	3.65	2.26	.91	.46	.39	2.93	8.91	2.23	3.59	.49	.20	.63
IN.	4.21	2.52	1.05	.53	.40	3.38	9.92	2.57	4.01	.56	.23	.71

CAL YR 1976 TOTAL 1763.05 MEAN 4.82 MAX 87 MIN .20 CFSM 3.28 IN 44.59
WTR YR 1977 TOTAL 1189.38 MEAN 3.26 MAX 28 MIN .01 CFSM 2.22 IN 30.08

01018000 MEDUXNEKEAG RIVER NEAR HOULTON, ME

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, Hydrologic Unit 01010005, on right bank 0.3 mi (0.5 km) downstream from South Branch and 2.0 mi (3.2 km) upstream from Houlton.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--October 1940 to current year. October 1940 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 1031: 1944.

GAGE.--Water-stage recorder. Datum of gage is 333.92 ft (101.779 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 293 ft^3/s (8.298 m^3/s), 22.74 in/yr (578 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,640 ft^3/s (188 m^3/s) Apr. 3, 1976, gage height, 9.98 ft (3.042 m); maximum gage height, 10.83 ft (3.301 m) Mar. 27, 1953 (backwater from ice); minimum discharge, 3.6 ft^3/s (0.10 m^3/s) Sept. 19, 1946, gage height, 2.09 ft (0.637 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,100 ft^3/s (59.5 m^3/s) and maximums (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Oct. 10	2100	2390	67.7	6.24	1.902	Apr. 23	1000	*2960	83.8	*6.79	2.070

Minimum discharge, 28 ft^3/s (0.79 m^3/s) Sept. 4, 5, gage height, 2.48 ft (0.756 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	706	170	115	49	41	1450	1030	109	680	57	37
2	168	756	150	110	48	41	1530	953	105	571	71	33
3	146	640	140	105	46	38	1450	1000	160	451	67	32
4	130	585	135	94	44	37	1330	908	224	360	54	29
5	114	1080	120	87	43	37	1240	796	494	298	50	30
6	105	1220	110	82	42	36	1140	742	726	247	72	55
7	103	1060	120	78	40	37	1040	806	742	210	70	69
8	153	828	185	74	39	38	925	763	782	184	57	62
9	673	667	155	70	39	41	807	636	673	159	51	54
10	2100	546	135	67	38	43	718	550	518	145	48	47
11	2020	459	120	72	37	50	652	542	425	130	49	40
12	1220	396	115	76	37	72	624	497	482	113	53	36
13	810	356	105	73	38	115	710	498	618	118	55	33
14	645	321	100	68	40	240	793	499	560	127	54	62
15	579	302	96	64	42	480	845	452	469	113	60	214
16	508	274	92	60	40	520	1000	396	371	97	54	209
17	433	261	90	56	36	510	1300	352	314	87	61	165
18	381	248	87	54	33	480	1620	318	680	75	78	128
19	356	239	85	52	33	445	1880	277	951	68	67	103
20	316	230	83	50	33	410	2020	243	1160	63	57	83
21	613	206	95	48	32	385	2320	216	1390	63	65	69
22	1220	198	115	46	32	375	2670	200	1470	57	60	59
23	1070	183	110	44	31	365	2910	185	1280	51	68	55
24	780	168	105	43	30	345	2630	169	948	48	76	50
25	640	157	97	42	31	350	2160	156	732	49	121	46
26	656	143	94	42	32	380	1820	157	940	50	109	43
27	618	175	95	43	31	425	1530	133	1030	47	86	156
28	530	206	105	47	37	480	1500	114	842	45	68	230
29	464	210	110	49	---	590	1610	132	648	41	56	271
30	417	194	115	52	---	718	1310	141	705	39	46	485
31	412	---	120	51	---	1060	---	125	---	57	41	---
TOTAL	18586	13014	3554	2014	1053	9184	43534	13986	20548	4843	1981	2985
MEAN	600	434	115	65.0	37.6	296	1451	451	685	156	63.9	99.5
MAX	2100	1220	185	115	49	1060	2910	1030	1470	680	121	485
MIN	103	143	83	42	30	36	624	114	105	39	41	29
CFSM	3.43	2.48	.66	.37	.22	1.69	8.29	2.58	3.91	.89	.37	.57
IN.	3.95	2.77	.76	.43	.22	1.95	9.25	2.97	4.37	1.03	.42	.63

CAL YR 1976 TOTAL 183759 MEAN 502 MAX 6010 MIN 61 CFSM 2.87 IN 39.06
WTR YR 1977 TOTAL 135282 MEAN 371 MAX 2910 MIN 29 CFSM 2.12 IN 28.76

NOTE.--No gage-height record Jan. 17 to Feb. 22.

ST. CROIX RIVER BASIN

01018500 ST. CROIX RIVER AT VANCEBORO, ME
(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, Hydrologic Unit 01050001, on right bank at international highway bridge in Vanceboro and 400 ft (120 m) downstream from outlet of Spednik Lake.

DRAINAGE AREA.--417 mi² (1,080 km²).

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 1431: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft (112.090 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Chiputneticook Lakes, combined usable capacity, about 13,200,000,000 ft³ (374,000,000 m³). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--49 years, 712 ft³/s (20.16 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,670 ft³/s (189 m³/s) Apr. 4, 1976, gage height, 10.88 ft (3.316 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,910 ft³/s (111 m³/s) June 22, gage height, 8.80 ft (2.682 m); minimum daily, 248 ft³/s (7.02 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	354	1110	518	1490	1110	285	1830	1560	683	870	660
2	485	354	1100	519	1470	1010	289	1220	1180	683	870	660
3	484	354	1090	519	1450	993	295	1230	819	683	860	662
4	485	354	1090	519	1540	975	300	1230	824	683	860	662
5	485	403	1080	519	1620	1010	304	1050	653	683	860	657
6	485	513	1200	522	1600	993	309	865	434	683	860	652
7	485	477	1370	524	1710	973	313	869	436	1500	860	652
8	485	477	1380	524	1630	953	318	868	446	2140	860	652
9	486	473	1360	524	1610	929	320	866	1050	2420	850	649
10	386	473	1350	524	1800	913	323	1150	1080	2400	850	647
11	248	505	1340	536	1790	904	325	1660	1120	2380	850	642
12	250	563	1330	537	1870	893	327	1430	1310	2350	850	588
13	250	652	1320	529	1910	882	331	1270	1500	2060	850	498
14	251	797	1300	528	1860	701	336	1270	1710	1580	850	498
15	254	1010	1210	528	1790	398	337	1260	1710	1550	850	505
16	254	1050	1160	528	1740	254	339	1260	1700	1550	850	502
17	254	1140	1230	528	1710	260	343	1140	1690	1530	850	502
18	452	1210	1300	528	1640	263	347	1070	2120	1520	640	500
19	616	1300	1280	528	1580	264	353	937	2420	1510	450	502
20	612	1400	1290	528	1530	267	358	766	2640	1500	450	499
21	443	1380	1280	528	1500	268	363	662	3330	1250	450	496
22	346	1460	1230	528	1440	270	373	662	3840	1020	450	494
23	346	1530	1030	867	1400	262	380	660	3830	990	450	494
24	346	1570	1260	1120	1350	262	387	771	2380	990	520	494
25	346	1660	1250	1360	1310	264	395	858	2050	990	660	418
26	346	1640	1250	1570	1280	266	657	862	2390	990	660	328
27	349	1620	799	1550	1230	269	1480	1110	2390	960	800	299
28	349	1620	487	1530	1210	271	2240	1220	1850	880	800	268
29	349	1600	511	1530	---	273	2260	1210	859	880	790	268
30	349	1380	515	1510	---	275	2260	1470	680	870	720	304
31	350	---	515	1500	---	281	---	1580	---	870	660	---
TOTAL	12111	29319	35017	24103	44450	17906	17247	34306	50001	40778	23050	15652
MEAN	391	977	1130	778	1588	578	575	1107	1667	1315	744	522
MAX	616	1660	1380	1570	1910	1110	2260	1830	3840	2420	870	662
MIN	248	354	487	518	1210	254	285	660	434	683	450	268

CAL YR 1976 TOTAL 348365 MEAN 952 MAX 6010 MIN 238
WTR YR 1977 TOTAL 343940 MEAN 942 MAX 3840 MIN 248

NOTE.--No gage-height record July 15 to Sept. 2.

01019000 GRAND LAKE STREAM AT GRAND LAKE STREAM, ME

LOCATION.--Lat 45°10'23", long 67°46'06", Washington County, Hydrologic Unit 01050001, on left bank at Big Falls, 0.5 mi (0.8 km) southeast of village of Grand Lake Stream, and 0.8 mi (1.3 km) downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--224 mi² (580 km²).

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 971: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft (83.503 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Flow completely regulated by Grand Lake, 0.8 mi (1.3 km) upstream, and other lakes, combined usable capacity, about 8,250,000,000 ft³ (234,000,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--49 years, 395 ft³/s (11.19 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) June 12, 1952, gage height, 6.35 ft (1.935 m); minimum daily, 5 ft³/s (0.14 m³/s) Dec. 3-6, 11, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Apr. 26, gage height, 4.51 ft (1.375 m); minimum daily, 124 ft³/s (3.51 m³/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	735	132	344	350	320	1150	269	1340	469	576	464	741
2	727	132	345	350	315	1120	265	1110	477	571	464	740
3	721	130	346	345	312	1090	266	749	407	569	466	739
4	752	131	344	340	312	1070	267	742	244	566	468	732
5	885	134	345	340	312	1060	268	737	251	395	525	719
6	871	134	345	340	312	1050	272	636	251	380	563	711
7	859	134	365	340	342	1030	271	483	251	747	559	711
8	845	134	380	340	366	1090	392	483	251	879	572	705
9	843	134	380	340	366	1190	502	483	251	877	578	616
10	846	133	381	340	386	1170	502	483	255	873	561	561
11	829	132	379	335	397	1160	502	322	292	867	559	561
12	807	132	378	335	413	1130	624	232	548	863	559	562
13	728	132	389	335	437	1110	740	232	476	758	561	546
14	421	132	404	330	465	1010	745	232	473	516	559	560
15	301	132	374	330	511	851	748	232	418	514	559	555
16	241	152	374	330	530	711	748	230	261	512	545	478
17	167	174	374	330	594	493	749	229	258	510	556	320
18	125	186	373	330	687	335	859	229	429	511	559	319
19	124	186	382	330	733	315	912	228	564	507	550	319
20	125	188	370	326	730	295	913	230	565	507	541	312
21	136	187	374	323	774	270	911	232	740	507	540	309
22	133	236	375	323	800	265	909	229	1130	506	544	309
23	132	302	399	323	837	232	958	228	1340	501	544	263
24	132	302	432	333	1010	232	1000	228	1330	497	537	238
25	132	302	432	367	1150	232	1180	231	1320	493	562	240
26	132	301	437	385	1140	233	1330	232	1320	494	562	241
27	130	315	450	402	1120	236	1370	383	1320	491	695	242
28	130	341	446	423	1150	238	1360	472	1160	483	759	241
29	130	344	445	439	---	242	1360	473	702	476	762	241
30	130	344	394	365	---	248	1340	473	581	469	754	241
31	130	---	350	319	---	267	---	471	---	469	740	---
TOTAL	13399	5848	11906	10738	16821	21125	22532	13294	18334	17874	17767	14072
MEAN	432	195	384	346	601	681	751	429	611	577	573	469
MAX	885	344	450	439	1150	1190	1370	1340	1340	879	762	741
MIN	124	130	344	319	312	232	265	228	244	380	464	238

CAL YR 1976 TOTAL 183744 MEAN 502 MAX 1960 MIN 124
WTR YR 1977 TOTAL 183710 MEAN 503 MAX 1370 MIN 124

01020000 ST. CROIX RIVER NEAR BAILEYVILLE, ME
(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, Hydrologic Unit 01050001, in township of Baileyville, on right bank 700 ft (213 m) downstream from powerhouse of Georgia-Pacific Corporation at Grand Falls, and 8 mi (13 km) upstream from village of Woodland.

DRAINAGE AREA.--1,320 mi² (3,419 km²).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1922.

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft (45.42 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand and other lakes, combined capacity, about 25,000,000,000 ft³ (708,000,000 m³). Final regulation is at Grand Falls Dam about 700 ft (213 m) upstream. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--58 years, 2,313 ft³/s (65.5 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 23,300 ft³/s (660 m³/s) May 1, 1923, gage height, 13.90 ft (4.237 m); minimum daily, 64 ft³/s (1.81 m³/s) Oct. 13, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,710 ft³/s (247 m³/s) Apr. 5, gage height, 6.43 ft (1.958 m); minimum daily, 426 ft³/s (12.1 m³/s) Aug. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	1990	1780	2340	2710	2910	7290	6260	2610	4190	2020	1520
2	1500	2160	1750	2350	2850	2910	8190	5840	1610	3830	1540	1720
3	1500	1800	2300	2350	2870	2920	8130	4900	2140	3370	1650	1880
4	1500	1580	2600	2320	2960	2910	7950	4580	3740	1630	1890	1790
5	1510	2040	2620	2310	2970	2910	8270	4080	5560	1890	1670	1470
6	1550	2330	2530	2270	2960	2920	8090	3360	7450	3010	1590	907
7	1590	2340	2440	2230	2920	2910	7510	3020	7800	3000	1410	723
8	1700	1950	1910	2200	2860	2910	7370	3030	6940	3000	1510	718
9	2100	1800	2090	2180	2880	2920	7000	3040	5890	3010	1570	657
10	2930	1760	2410	2160	2900	2930	5790	2890	5130	3000	784	963
11	3940	2200	2500	2150	2900	2930	5170	3030	4700	3010	426	991
12	3720	2560	2570	2200	2900	2940	4730	3320	5690	2980	426	1230
13	3230	2560	2030	2200	2920	2930	4420	3420	6430	2710	1190	1180
14	3030	2560	1590	2200	2920	2980	4500	3400	5800	2650	1190	1790
15	3030	2480	2460	2200	2590	2990	4610	3120	5030	2380	1470	1410
16	3000	2590	2450	2200	2750	2890	4670	2710	4710	2250	1340	1520
17	2990	2190	2510	2160	2840	3040	4740	2550	4170	2230	1750	1680
18	2810	2010	2520	2150	2950	3130	5040	2570	5100	2100	1640	1430
19	2370	2720	2690	2150	2950	3140	5410	2410	5700	1920	1830	1320
20	2290	2710	2710	2150	2940	3230	5260	2220	6380	2000	1630	1390
21	2810	2670	2720	2150	2930	3160	5440	2170	6720	2070	1650	1280
22	3130	2080	2830	2150	2930	3250	5450	2260	7370	1900	1770	1320
23	3320	2240	2610	2140	2930	3210	5490	1900	7800	1700	1450	1330
24	3300	2530	1800	2520	2840	3210	5540	1780	7910	1450	1370	1300
25	3150	2540	1590	2810	2920	3200	5990	1790	7760	1500	2360	1300
26	2560	2330	1970	2900	2710	3200	6310	1780	7410	1600	2230	1250
27	2120	2370	2540	2870	2910	3190	6240	1760	5910	1750	1450	1340
28	2160	2440	2290	2950	2920	3210	6230	1760	4760	1850	1430	1690
29	2150	2590	2010	2950	---	3760	6280	1520	4810	1680	1400	1300
30	2100	2110	2270	2950	---	4130	6330	2060	4760	1770	1420	1380
31	2080	---	2380	2530	---	5510	---	2060	---	1930	1430	---
TOTAL	76720	68230	71470	73390	80630	98380	183440	90590	167790	73360	46486	39779
MEAN	2475	2274	2305	2367	2880	3174	6115	2922	5593	2366	1500	1326
MAX	3940	2720	2830	2950	2970	5510	8270	6260	7910	4190	2360	1880
MIN	1500	1580	1590	2140	2590	2890	4420	1520	1610	1450	426	657

CAL YR 1976 TOTAL 1132494 MEAN 3094 MAX 19900 MIN 820
WTR YR 1977 TOTAL 1070265 MEAN 2932 MAX 8270 MIN 426

01021000 ST. CROIX RIVER AT BARING, ME
(International gaging station)

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, Hydrologic Unit 01050001, on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,370 mi² (3,548 km²).

PERIOD OF RECORD.--Discharge: October 1958 to current year.
Water temperatures: October 1959 to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 66.231 ft (20.187 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes, Grand, and other lakes, combined capacity, about 25,000,000 ft³ (708,000,000 m³). Final regulation is at Woodland 5.6 mi (9.0 km) upstream from gage. Several observations of water temperature and specific conductance were made during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--18 years (water years 1960-77), 2,692 ft³/s (76.24 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s (666 m³/s) May 29, 1961, gage height, 12.76 ft (3.889 m); minimum daily, 262 ft³/s (7.42 m³/s) Oct. 20, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,600 ft³/s (272 m³/s) Apr. 6, gage height, 9.60 ft (2.926 m); minimum daily, 746 ft³/s (21.1 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	2160	2000	2360	2850	3040	8520	6580	2720	4440	1750	1530
2	1510	2080	1830	2260	2920	2980	8980	6310	1770	3920	1850	1710
3	1510	1900	2040	2300	2940	2950	9080	5360	1720	3390	1620	2020
4	1510	1800	2510	2520	2900	2940	8920	4850	3990	2030	1770	2090
5	1510	2160	2450	2500	2920	2940	8980	4400	5750	1920	1610	1200
6	1510	2470	2450	2340	2940	2920	9280	3550	8160	2800	1570	1090
7	1510	2450	2490	2130	2880	2910	8230	3170	8540	3020	1310	759
8	1600	2170	2210	2120	2870	2910	7920	3260	7720	3020	1520	752
9	2120	1840	2160	2170	2910	2910	7640	3150	6500	2970	1440	746
10	3140	1730	2640	2170	2870	2950	7470	2990	5680	2860	1270	906
11	4080	2110	2480	2180	2870	3010	7220	3100	5290	2900	1840	1080
12	3940	2490	2480	2250	2870	3060	4760	3390	6690	2900	1560	1260
13	3340	2480	2190	2280	2870	3100	4450	3610	7220	2910	1630	1320
14	3070	2470	1600	2300	2870	3370	4850	3590	6390	2710	966	1860
15	3130	2490	2320	2300	2710	3670	4780	3350	5510	2340	1560	1700
16	3020	2500	2430	2300	2700	3620	4780	3000	5100	2360	1390	1480
17	2960	2380	2440	2290	2850	3550	4920	2700	4730	2200	1790	1520
18	2870	1910	2440	2280	2940	3430	5120	2540	5580	1800	1800	1670
19	2640	2580	2530	2270	2940	3400	5530	2320	6320	2200	1790	1270
20	2320	2620	2860	2260	2920	3390	5370	2300	6830	1850	1680	1590
21	3160	2570	2730	2250	2940	3470	5520	2340	7330	2020	1560	1070
22	3640	2280	2750	2250	2940	3550	5550	2330	7910	1960	1850	1430
23	3500	2120	2620	2400	2880	3590	5570	2080	8310	1650	1510	1390
24	3510	2370	1970	2800	2870	3400	5580	1820	8250	1440	1420	1300
25	3500	2410	1670	3000	2870	3300	6100	1820	8130	1570	2270	1250
26	2880	2410	1900	3050	2880	3290	6610	1820	7860	1680	2320	1260
27	2140	2400	2880	3100	2880	3650	6630	1810	6720	1820	1670	1570
28	2190	2400	2480	3100	3010	3600	6590	1810	4960	1620	1570	1930
29	2130	2550	2440	3100	---	4240	6620	1510	4930	1760	1180	1400
30	2230	2250	2480	3050	---	4830	6620	2000	5000	1830	1610	1350
31	2230	---	2500	2900	---	6480	---	1980	---	1810	1400	---
TOTAL	79920	68550	72970	76580	80810	106450	198190	94840	181610	73700	50076	41503
MEAN	2578	2285	2354	2470	2886	3434	6606	3059	6054	2377	1615	1383
MAX	4080	2620	2880	3100	3010	6480	9280	6580	8540	4440	2320	2090
MIN	1510	1730	1600	2120	2700	2910	4450	1510	1720	1440	966	746

CAL YR 1976 TOTAL 1196599 MEAN 3269 MAX 20400 MIN 953
WTR YR 1977 TOTAL 1125199 MEAN 3083 MAX 9280 MIN 746

01021050 ST. CROIX RIVER AT MILLTOWN, ME
(National stream-quality accounting network station)

LOCATION.--Lat 45°10'11", long 67°17'50", Washington County, Hydrologic Unit 01050001, on right bank, 30 ft (9 m) downstream from international highway bridge at Milltown.

DRAINAGE AREA.--1,460 mi^2 (3,780 km^2).

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1972 to current year.
pH: July 1972 to current year.
WATER TEMPERATURES: September 1969 to current year.
DISSOLVED OXYGEN: September 1969 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1969.

REMARKS.--Monitor not operated during winter periods, water years 1969 to 1975. Other interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, $\geq$200 micromhos (monitor limitation) Oct. 21, 22, 1975; minimum, 27 micromhos July 7, 8, 1973.
pH: Maximum, 11.6 units Sept. 28, 1974; minimum, 5.3 units Oct. 18, 1973.
WATER TEMPERATURES: Maximum, 28.0°C July 21, 22, 1977; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 14.7 mg/L Nov. 23, 1975; minimum, 0.5 mg/L Aug. 19, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 135 micromhos Dec. 30; minimum, 32 micromhos May 12.
pH: Maximum, 10.1 units Dec. 30; minimum, 6.1 units on many days.
WATER TEMPERATURES: Maximum, 28.0°C July 21, 22; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L Nov. 16; minimum, 4.9 mg/L July 22.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	COD IN BOTTOM MATERIAL (MG/KG)	FECAL COLIFORM .7UM-MF (COL./100 ML)
OCT												
13...	1500	3190	61	6.7	11.5	45	2	9.4	85	26	--	B20
NOV												
02...	1800	1960	80	6.8	4.5	70	3	11.4	88	38	--	40
18...	1300	1780	76	6.6	2.5	60	5	12.7	93	32	--	B20
DEC												
07...	1100	2500	81	6.8	1.0	60	3	12.0	84	39	18000	B6
22...	1230	2760	60	6.6	.0	45	2	12.0	82	110	--	13
JAN												
05...	1300	2530	85	6.7	.5	20	2	11.0	76	32	--	B4
FEB												
01...	1130	1840	75	6.6	.5	20	2	13.0	90	30	--	B4
15...	1345	1710	105	7.0	.5	--	5	9.0	62	--	--	B2
MAR												
15...	1000	3670	82	6.6	3.0	--	--	8.3	61	--	--	95
30...	1230	4740	75	6.2	2.5	--	--	13.0	95	--	--	B10
MAY												
05...	1200	4700	44	6.6	8.5	30	2	10.8	92	100	37000	B5
JUN												
02...	1500	1470	70	6.6	17.0	60	4	7.2	74	25	--	--
15...	1345	5640	42	6.4	17.0	100	3	8.4	87	24	--	B4
30...	1245	5000	48	6.2	19.5	--	--	7.8	84	--	--	26
AUG												
02...	1245	1800	74	6.6	22.0	40	2	6.2	70	25	--	B1260
25...	1330	2500	71	6.8	19.0	--	1	6.8	72	--	9000	40
SEP												
21...	1245	903	78	6.7	13.5	--	--	8.2	78	--	--	620

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT												
13...	820	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	20	--	--	--	--	--	--	--	--	--	--	--
18...	815	--	--	--	--	--	--	--	--	--	--	--
DEC												
07...	88	18	4	5.3	1.1	7.4	47	.8	.5	17	0	14
22...	88	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	86	--	--	--	--	--	--	--	--	--	--	--
FEB												
01...	>1000	--	--	--	--	--	--	--	--	--	--	--
15...	>1000	16	0	6.1	.2	8.7	53	.9	.6	23	0	19
MAR												
15...	380	--	--	--	--	--	--	--	--	--	--	--
30...	>1000	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	150	11	5	3.4	.7	3.5	39	.5	.5	8	0	7
JUN												
02...	95	--	--	--	--	--	--	--	--	--	--	--
15...	220	--	--	--	--	--	--	--	--	--	--	--
30...	31	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	700	--	--	--	--	--	--	--	--	--	--	--
25...	460	14	4	4.5	.6	8.2	55	1.0	.8	12	0	10
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	LOSS ON IGNI-TION IN BOTTOM MA-TERIAL (MG/KG)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	--	--	--	--	--	--	--	--	.02	.38	.40
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	4.3	7.9	.1	2.8	49	43	331	19500	.05	.33	.38
22...	--	--	--	--	--	--	--	--	.04	.35	.39
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	.03	.27	.30
15...	3.7	5.8	.1	2.7	61	43	282	--	.03	.47	.50
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	3.2	4.7	.0	2.3	33	24	419	31300	.05	.29	.34
JUN											
02...	--	--	--	--	--	--	--	--	.01	.32	.33
15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	.02	.43	.45
AUG											
02...	--	--	--	--	--	--	--	--	.02	.46	.48
25...	3.0	6.5	.0	1.2	57	37	385	18900	.03	.26	.29
SEP											
21...	--	--	--	--	--	--	--	--	.00	.38	.38

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ALUMINUM IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BARIUM IN BOTTOM MATERIAL (UG/G)	TOTAL BERYLLIUM (BE) (UG/L)	TOTAL BERYLLIUM IN BOTTOM MATERIAL (UG/G)	TOTAL BISMUTH (BI) (UG/L)
NOV												
02...	1.8	.04	--	--	--	--	--	--	--	--	--	--
DEC												
07...	1.7	.03	140	>600	1	0	1	6	5	<0	8	<0
22...	1.7	.03	--	--	--	--	--	--	--	--	--	--
FEB												
01...	1.3	.01	--	--	--	--	--	--	--	--	--	--
15...	2.2	.03	150	32000	0	0	0	0	20	--	--	--
MAY												
05...	1.5	.01	150	3300	1	0	1	0	20	0	1	--
JUN												
02...	1.5	.05	--	--	--	--	--	--	--	--	--	--
30...	2.0	.03	--	--	--	--	--	--	--	--	--	--
AUG												
02...	2.1	.04	--	--	--	--	--	--	--	--	--	--
25...	1.3	.05	150	1300	0	0	0	100	<10	10	<10	--
SEP												
21...	1.7	.03	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	20	1	0	2	10	2	0	<10	3	<0	0
22...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
15...	--	<10	0	0	<1	0	0	<10	4	<50	0
MAY											
05...	--	<10	0	0	<1	0	5	5	6	<50	0
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
25...	--	0	0	0	20	20	19	1	20	0	0
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL GALLIUM (GA) (UG/L)	TOTAL GERMANIUM (GE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LITHIUM (LI) (UG/L)
DEC										
07...	0	6	2	0	0	3	<0	<1	>600	0
FEB										
15...	0	<5	10	10	0	--	--	--	6800	--
MAY										
05...	0	<5	0	0	0	--	--	--	85000	--
AUG										
25...	0	<10	3	3	0	--	--	--	2400	0

DATE	TOTAL TITANIUM (TI) (UG/L)	TOTAL TITANIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZIRCONIUM (ZR) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)
DEC										
07...	6	>6	<1	140	110	>16	11	27	>60	20
FEB										
15...	--	--	--	250	100	<100	16	0	<5	50
MAY										
05...	--	--	--	180	110	100	9	4	15	30
AUG										
25...	--	--	--	290	130	27	20	7	500	60

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL MOLYB-DENUM IN BOT-TOM MA-TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)
DEC										
07...	10	50	>60	<.5	.0	<.5	<.5	<0	<0	8
FEB										
15...	10	40	97	<.5	.0	<.5	--	0	0	<50
MAY										
05...	10	20	2300	.0	.0	.0	.0	0	0	100
AUG										
25...	20	40	210	.0	.0	.0	.0	1	<10	6

DATE	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL SILVER IN BOTTOM MA-TERIAL (UG/G)	TOTAL STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL TIN (SN) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
DEC										
07...	>60	0	0	0	<0	0	20	2	<0	4.1
FEB										
15...	5	0	0	0	<10	<1	40	3	--	--
MAY										
05...	10	0	0	0	<10	<1	30	50	--	--
AUG										
25...	70	0	0	0	0	<10	20	<10	--	--

DATE	TOTAL VANA-DIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT								
13...	--	--	--	--	--	12	--	--
NOV								
02...	--	--	--	--	--	16	--	--
18...	--	--	--	--	--	14	--	--
DEC								
07...	15	10	10	0	25	17	--	--
22...	--	--	--	--	--	--	20	149
FEB								
01...	--	--	--	--	--	7.6	9	45
15...	--	10	10	0	22	12	2	9.2
MAR								
30...	--	--	--	--	--	--	1	13
MAY								
05...	--	20	10	10	38	5.6	9	114
JUN								
02...	--	--	--	--	--	--	10	40
15...	--	--	--	--	--	6.4	--	--
30...	--	--	--	--	--	--	7	94
AUG								
02...	--	--	--	--	--	--	7	34
25...	--	50	50	0	130	6.1	4	27
SEP								
21...	--	--	--	--	--	--	20	49

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
NOV 02	38	36200	17200	--	--	--	ARTIFICIAL SUBSTRATE
AUG 25	27	7950	3780	0.742	0.027	5620	ARTIFICIAL SUBSTRATE
SEP 21	37	236	0.0	0.127	0.002	1860	ARTIFICIAL SUBSTRATE

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1976 TO FEBRUARY 1977

DATE TIME	NOV 2.76 1800	DEC 7.76 1100	DEC 22.76 1230	FEB 15.77 1445
TOTAL CELLS/ML	1300	860	9600	1600
DIVERSITY: DIVISION	0.7	0.4	0.5	0.2
.CLASS	0.7	0.4	0.5	0.2
..ORDER	1.1	0.4	0.5	0.6
...FAMILY	1.2	0.5	0.5	0.6
....GENUS	1.5	0.5	0.5	0.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....ANKISTRODESMUS	42	3	--	-	--	-	--	-
....OOCYSTIS	83	6	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	450	5	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	13	2	170	2	*	0
....MELOSIRA	--	-	17	2	--	-	*	0
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	10	1	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	*	0	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	*	0
...EUNOTIACEAE								
....EUNOTIA	--	-	4	1	--	-	*	0
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	9	1	--	-	--	-
....FRAGILARIA	--	-	--	-	*	0	--	-
....SYNEDRA	--	-	17	2	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	*	0	--	-
...NAVICULACEAE								
....NAVICULA	10	1	--	-	*	0	*	0
....PINNULARIA	--	-	*	0	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	21	2	--	-	*	0	*	0
...TABELLARIACEAE								
....TABELLARIA	21	2	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	*	0	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CHLOROTHECIACEAE								
....OPHIOCYTIUM	--	-	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	83	6	--	-	--	-	150	10
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	62	5	--	-	--	-	--	-
....OSCILLATORIA	960#	74	800#	93	8900#	92	1400#	88
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	*	0	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	*	0	--	-
....TRACHELOMONAS	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

PHYTOPLANKTON ANALYSES, MARCH 1977 TO SEPTEMBER 1977

DATE TIME	JUN 2,77 1445	JUN 30,77 1245	AUG 2,77 1245	AUG 25,77 1330	SEP 21,77 1245
TOTAL CELLS/ML	5900	460	9900	45	430000
DIVERSITY: DIVISION	1.3	1.8	0.4	1.1	0.0
.CLASS	1.6	1.8	0.4	1.8	0.0
..ORDER	2.2	2.5	0.6	1.8	0.0
...FAMILY	2.4	2.8	0.7	1.8	0.0
....GENUS	2.5	2.8	1.9	2.0	0.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	98	1	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	150	2	8	2	110	1	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	180	2	--	-	--	-
....OOCYSTIS	--	-	--	-	*	0	--	-	--	-
....SELENASTRUM	--	-	8	2	*	0	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	*	0
...SCENEDESMACEAE										
....CRUCIGENIA	150	2	--	-	*	0	--	-	--	-
....SCENEDESMUS	--	-	120#	27	73	1	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	150	2	8	2	--	-	6	13	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	580	10	--	-	*	0	--	-	--	-
....MELOSIRA	--	-	92#	20	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	*	0	6	13	--	-
...DIATOMACEAE										
....DIATOMA	49	1	--	-	*	0	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	8	2	--	-	--	-	--	-
....SYNEDRA	97	2	--	-	*	0	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	97	2	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	--	-	*	0
...NITZSCHIACEAE										
....NITZSCHIA	49	1	15	3	--	-	--	-	--	-
...TABELLARIACEAE										
....TABELLARIA	--	-	8	2	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...MALLOMONADACEAE										
....MALLOMONAS	--	-	--	-	*	0	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	190	3	--	-	--	-	--	-	--	-
....OCHROMONAS	540	9	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....AGMENELLUM	--	-	--	-	940	10	--	-	--	-
....ANACYSTIS	3100#	53	92#	20	2100#	21	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	120	1	--	-	430000#	100
....OSCILLATORIA	580	10	77#	17	270	3	--	-	--	-
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....GOMPHOSPHAERIA	--	-	--	-	5900#	59	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	8	2	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	8	2	*	0	23#	50	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	6	13	*	0
....PHACUS	49	1	--	-	--	-	--	-	--	-
....TRACHELOMONAS	97	2	--	-	*	0	6	13	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	8	2	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	104	82	90	82	74	77	89	76	82	101	69	86
2	81	76	78	89	75	80	90	78	83	106	76	88
3	84	72	76	97	75	88	100	89	95	102	71	89
4	71	66	70	88	71	80	94	78	84	88	78	84
5	74	66	72	96	82	92	85	78	81	89	81	85
6	79	66	72	82	69	72	80	76	78	89	81	85
7	78	68	74	76	61	68	82	75	79	90	81	86
8	80	79	80	75	68	71	82	67	74	92	84	88
9	86	72	80	90	71	82	102	81	92	96	89	92
10	66	62	64	89	75	79	---	---	---	108	96	102
11	65	53	61	82	63	74	---	---	---	---	---	---
12	61	43	56	75	67	70	95	87	90	---	---	---
13	66	51	62	78	70	74	93	88	91	---	---	---
14	70	65	68	77	70	74	103	87	94	---	---	---
15	83	68	78	78	69	74	102	90	99	---	---	---
16	80	70	75	71	68	69	100	81	92	---	---	---
17	---	---	---	72	66	70	100	94	98	---	---	---
18	---	---	---	77	65	71	109	95	101	---	---	---
19	---	---	---	79	61	69	94	75	84	---	---	---
20	82	66	75	78	68	73	90	71	81	---	---	---
21	93	71	85	75	69	72	83	71	75	---	---	---
22	69	62	63	73	56	66	72	63	67	---	---	---
23	65	61	63	88	55	75	92	75	86	---	---	---
24	80	65	71	87	72	77	90	71	81	---	---	---
25	83	76	79	78	73	75	75	69	71	---	---	---
26	79	67	71	73	71	72	82	68	75	---	---	---
27	100	81	92	73	71	72	74	67	71	---	---	---
28	130	90	107	71	69	70	73	63	69	---	---	---
29	88	78	82	75	71	74	99	72	91	---	---	---
30	81	77	80	79	71	73	135	80	103	---	---	---
31	99	80	88	---	---	---	94	72	83	---	---	---
MONTH	130	43	75	97	55	74	135	63	84	108	69	89

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	85	67	74	73	57	66	45	44	44
2	91	66	79	77	59	72	65	55	61	45	43	44
3	64	36	54	85	55	73	62	56	60	47	43	45
4	61	51	59	80	73	75	60	59	60	46	44	45
5	60	50	56	74	53	59	61	51	57	52	35	41
6	97	61	67	63	57	60	53	48	50	79	52	64
7	101	67	86	65	59	63	50	48	49	53	45	49
8	76	64	70	57	52	54	49	47	48	45	39	41
9	75	58	68	56	53	54	63	49	59	42	40	40
10	80	75	78	62	55	58	65	60	62	41	34	37
11	81	77	79	59	55	58	63	50	59	37	34	35
12	81	74	78	58	55	57	57	49	51	36	32	34
13	98	80	89	62	58	60	70	54	62	35	34	34
14	108	77	96	77	54	59	66	54	63	36	34	35
15	107	66	83	97	83	90	58	47	54	41	36	38
16	72	57	65	83	74	78	67	47	58	47	41	45
17	74	60	70	73	70	72	67	47	57	48	46	47
18	68	55	63	81	70	76	64	44	55	54	45	50
19	72	62	66	72	55	64	60	42	53	53	47	51
20	72	62	66	57	55	56	60	42	52	57	53	55
21	70	64	68	57	52	54	53	40	44	59	55	57
22	66	51	57	55	52	54	52	50	51	61	58	59
23	65	55	62	54	51	52	51	48	49	67	52	59
24	68	58	65	58	54	56	50	45	48	69	58	64
25	58	49	52	63	60	62	47	42	44	70	61	65
26	69	61	65	74	71	72	45	37	40	67	62	65
27	73	64	68	74	69	72	45	41	44	71	64	67
28	70	61	67	76	64	70	43	39	41	70	68	69
29	---	---	---	73	54	64	44	42	43	73	71	72
30	---	---	---	70	58	64	45	42	44	86	69	75
31	---	---	---	84	64	74	---	---	---	69	67	68
MONTH	108	36	69	97	51	65	73	37	53	86	32	51

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	70	61	65	39	34	36	101	83	92	100	93	95
2	71	61	66	46	40	43	100	74	86	98	85	89
3	80	69	75	46	42	44	95	79	85	94	79	88
4	78	55	65	51	40	46	89	76	84	76	69	71
5	57	50	55	47	42	44	89	78	83	94	71	84
6	50	47	48	45	36	40	93	80	88	97	74	89
7	48	45	46	40	35	38	93	80	87	75	69	71
8	47	44	45	53	39	46	106	78	89	76	68	72
9	47	45	46	61	51	56	94	77	84	67	63	65
10	47	45	46	62	57	59	100	82	92	68	64	66
11	49	45	47	64	57	61	97	73	88	85	64	72
12	45	43	44	63	55	58	96	76	84	108	86	96
13	44	41	42	59	54	56	92	70	82	114	99	105
14	---	---	---	58	54	56	93	76	86	112	90	105
15	---	---	---	64	56	59	110	93	100	88	83	86
16	47	41	44	65	58	61	96	77	86	106	86	95
17	45	41	43	77	62	68	102	75	88	96	89	92
18	51	41	46	87	72	81	89	71	78	96	80	86
19	45	41	42	97	83	91	86	74	81	94	79	84
20	44	38	41	92	78	85	86	72	79	94	78	88
21	41	38	39	97	82	90	92	75	81	79	70	74
22	41	36	38	94	81	88	97	72	84	89	70	79
23	40	36	38	96	84	89	81	66	75	81	71	78
24	40	35	37	102	87	94	98	68	84	82	76	79
25	39	35	37	107	85	97	85	63	72	90	79	85
26	40	36	38	100	86	93	66	63	64	89	81	85
27	43	37	39	103	87	95	82	63	73	96	80	89
28	45	41	42	95	84	90	101	83	93	92	70	79
29	47	43	44	97	80	88	109	91	98	90	72	81
30	51	41	47	100	83	91	116	94	103	87	81	85
31	---	---	---	101	77	91	99	87	92	---	---	---
MONTH	80	35	47	107	34	69	116	63	85	114	63	84
YEAR	135	32	69									

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.7	6.5	6.6	6.7	6.4	6.6	7.3	6.6	6.9	6.9	6.6	6.8
2	6.7	6.7	6.7	7.0	6.7	6.9	7.1	6.6	6.8	7.3	6.9	7.0
3	6.8	6.6	6.7	8.0	6.9	7.4	6.7	6.4	6.5	7.0	6.8	6.9
4	6.7	6.6	6.6	7.6	6.9	7.1	6.4	6.2	6.3	6.8	6.6	6.7
5	6.8	6.6	6.7	7.3	6.8	7.1	6.4	6.2	6.3	6.8	6.6	6.7
6	6.8	6.7	6.8	7.0	6.6	6.8	6.5	6.3	6.4	6.8	6.6	6.7
7	7.0	6.8	6.8	6.7	6.6	6.7	6.8	6.4	6.6	6.7	6.5	6.6
8	6.8	6.6	6.7	6.9	6.4	6.6	6.8	6.6	6.7	6.6	6.6	6.6
9	6.8	6.5	6.6	6.8	6.4	6.7	7.0	6.5	6.7	6.8	6.6	6.7
10	6.9	6.8	6.8	6.8	6.5	6.7	---	---	---	6.9	6.8	6.8
11	6.8	6.5	6.6	6.9	6.6	6.7	---	---	---	---	---	---
12	6.7	6.6	6.6	6.7	6.6	6.7	6.8	6.5	6.6	---	---	---
13	6.9	6.7	6.8	7.1	6.7	6.9	6.7	6.5	6.6	---	---	---
14	6.9	6.7	6.8	6.9	6.7	6.8	6.9	6.6	6.7	---	---	---
15	7.3	6.7	7.1	6.7	6.5	6.6	7.1	6.9	7.0	---	---	---
16	7.2	6.7	6.9	6.6	6.5	6.6	7.1	6.7	6.8	---	---	---
17	---	---	---	6.8	6.6	6.7	7.1	6.9	7.0	---	---	---
18	---	---	---	6.7	6.3	6.5	7.1	6.8	7.0	---	---	---
19	---	---	---	6.7	6.5	6.6	7.0	6.8	6.9	---	---	---
20	6.6	6.3	6.4	6.7	6.5	6.6	7.2	6.7	7.0	---	---	---
21	7.1	6.6	6.8	6.6	6.3	6.4	7.1	6.6	6.8	---	---	---
22	6.6	6.1	6.4	6.6	6.3	6.5	6.7	6.5	6.6	---	---	---
23	6.3	6.2	6.3	7.1	6.5	6.9	7.1	6.7	6.9	---	---	---
24	6.9	6.4	6.6	7.0	6.6	6.8	7.1	6.5	6.7	---	---	---
25	6.9	6.4	6.6	6.8	6.6	6.7	6.7	6.6	6.6	---	---	---
26	6.7	6.5	6.6	6.6	6.4	6.5	6.8	6.7	6.7	---	---	---
27	8.0	6.8	7.3	6.6	6.4	6.5	7.2	6.7	6.8	---	---	---
28	9.0	6.9	8.1	6.6	6.5	6.5	6.9	6.4	6.6	---	---	---
29	6.8	6.2	6.4	6.7	6.5	6.6	7.0	6.5	6.8	---	---	---
30	6.3	6.1	6.1	6.8	6.5	6.7	10.1	6.9	8.1	---	---	---
31	7.0	6.3	6.7	---	---	---	7.0	6.6	6.7	---	---	---
MONTH	9.0	6.1	6.7	8.0	6.3	6.7	10.1	6.2	6.8	7.3	6.5	6.8

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	7.2	6.5	6.7	6.3	6.2	6.3	6.6	6.5	6.6
2	7.6	7.0	7.4	6.8	6.6	6.7	6.4	6.2	6.3	6.6	6.5	6.6
3	7.1	7.0	7.1	6.9	6.5	6.7	6.5	6.2	6.4	6.6	6.5	6.6
4	7.2	6.9	7.0	6.7	6.6	6.6	6.4	6.2	6.4	6.6	6.5	6.6
5	7.0	6.4	6.6	6.6	6.4	6.5	6.5	6.2	6.4	6.6	6.5	6.5
6	7.1	6.4	6.6	6.5	6.4	6.4	6.4	6.1	6.2	6.6	6.5	6.6
7	7.2	6.6	6.8	6.5	6.5	6.5	6.2	6.2	6.2	6.6	6.5	6.6
8	6.9	6.6	6.7	6.5	6.5	6.5	6.3	6.2	6.2	6.6	6.5	6.6
9	6.8	6.7	6.7	6.5	6.3	6.4	6.3	6.2	6.3	6.7	6.6	6.6
10	6.7	6.6	6.6	6.5	6.4	6.4	6.3	6.3	6.3	6.6	6.5	6.6
11	6.8	6.7	6.7	6.4	6.3	6.4	6.4	6.2	6.3	6.7	6.6	6.6
12	6.8	6.6	6.7	6.4	6.3	6.3	6.3	6.3	6.3	6.6	6.5	6.6
13	7.0	6.7	6.8	6.3	6.3	6.3	6.5	6.3	6.4	6.6	6.5	6.6
14	7.7	6.7	7.1	6.5	6.3	6.3	6.5	6.3	6.4	6.7	6.6	6.7
15	7.9	6.9	7.6	6.8	6.5	6.6	6.5	6.4	6.4	6.7	6.6	6.7
16	6.9	6.7	6.8	6.7	6.5	6.6	6.6	6.4	6.5	6.7	6.6	6.7
17	7.3	6.8	6.9	6.6	6.5	6.6	6.6	6.4	6.5	6.8	6.6	6.7
18	7.0	6.6	6.7	6.7	6.6	6.6	6.8	6.5	6.6	6.7	6.5	6.6
19	6.6	6.4	6.5	6.6	6.6	6.6	6.8	6.4	6.5	6.7	6.6	6.6
20	6.5	6.3	6.5	6.3	6.3	6.3	6.5	6.4	6.5	6.7	6.6	6.6
21	6.5	6.2	6.3	6.3	6.3	6.3	6.5	6.4	6.4	6.6	6.5	6.5
22	6.6	6.4	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.6	6.5	6.5
23	6.6	6.4	6.5	6.4	6.3	6.4	6.5	6.5	6.5	6.5	6.4	6.4
24	6.4	6.3	6.4	6.5	6.3	6.4	6.6	6.5	6.5	6.5	6.4	6.5
25	6.5	6.4	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.5	6.4	6.5
26	6.6	6.4	6.5	6.5	6.4	6.4	---	---	---	6.6	6.5	6.5
27	6.7	6.4	6.5	6.5	6.3	6.4	6.5	6.5	6.5	6.6	6.5	6.6
28	6.5	6.3	6.4	6.5	6.3	6.4	6.5	6.5	6.5	6.6	6.5	6.6
29	---	---	---	6.5	6.2	6.4	6.6	6.5	6.6	6.6	6.5	6.6
30	---	---	---	6.4	6.1	6.2	6.6	6.5	6.6	6.6	6.5	6.6
31	---	---	---	6.4	6.1	6.2	---	---	---	6.6	6.5	6.6
MONTH	7.9	6.2	6.7	7.2	6.1	6.5	6.8	6.1	6.4	6.8	6.4	6.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	6.5	6.6	6.3	6.2	6.2	6.7	6.6	6.6	6.6	6.5	6.6
2	6.6	6.5	6.5	6.4	6.1	6.3	6.7	6.2	6.6	6.6	6.5	6.5
3	6.6	6.5	6.5	6.4	6.2	6.3	6.8	6.6	6.7	6.6	6.5	6.5
4	6.6	6.5	6.5	6.6	6.3	6.4	6.8	6.6	6.7	6.6	6.4	6.5
5	6.6	6.5	6.5	6.5	6.2	6.4	6.8	6.6	6.7	6.6	6.5	6.5
6	6.5	6.5	6.5	6.4	6.3	6.3	6.7	6.6	6.7	6.6	6.5	6.5
7	6.5	6.4	6.5	6.4	6.2	6.3	6.8	6.6	6.7	6.6	6.5	6.6
8	6.5	6.4	6.5	6.5	6.3	6.4	6.8	6.6	6.6	6.6	6.5	6.6
9	6.4	6.4	6.4	6.5	6.3	6.4	6.7	6.6	6.7	6.6	6.5	6.5
10	6.5	6.4	6.5	6.5	6.4	6.4	6.8	6.6	6.7	6.6	6.5	6.6
11	6.5	6.4	6.5	6.5	6.4	6.5	6.7	6.6	6.6	6.7	6.6	6.6
12	6.5	6.4	6.4	6.5	6.3	6.4	6.6	6.6	6.6	6.8	6.6	6.7
13	6.4	6.4	6.4	6.5	6.3	6.4	6.7	6.5	6.6	6.8	6.7	6.7
14	---	---	---	6.5	6.3	6.4	6.7	6.6	6.6	6.8	6.7	6.8
15	---	---	---	6.6	6.4	6.5	6.8	6.6	6.7	6.8	6.7	6.7
16	6.6	6.4	6.5	6.6	6.3	6.4	6.8	6.6	6.7	6.8	6.7	6.7
17	6.5	6.4	6.5	6.5	6.3	6.4	6.8	6.7	6.7	6.8	6.7	6.8
18	6.5	6.4	6.4	6.5	6.4	6.5	6.8	6.6	6.7	6.8	6.7	6.7
19	6.4	6.4	6.4	6.6	6.4	6.5	6.8	6.7	6.7	6.8	6.7	6.7
20	6.4	6.4	6.4	6.6	6.4	6.4	6.8	6.7	6.7	6.8	6.7	6.8
21	6.4	6.3	6.4	6.6	6.4	6.5	6.8	6.7	6.7	6.8	6.7	6.7
22	6.5	6.3	6.4	6.7	6.5	6.6	6.8	6.7	6.8	6.8	6.7	6.7
23	6.4	6.4	6.4	6.6	6.4	6.6	6.8	6.6	6.7	6.8	6.7	6.8
24	6.4	6.3	6.4	6.7	6.5	6.6	6.8	6.7	6.7	6.8	6.7	6.8
25	6.4	6.3	6.4	6.7	6.6	6.6	6.8	6.6	6.7	6.8	6.7	6.7
26	6.4	6.4	6.4	6.8	6.6	6.7	6.6	6.5	6.6	6.8	6.7	6.8
27	6.5	6.3	6.4	6.8	6.5	6.7	6.6	6.5	6.5	6.8	6.7	6.7
28	6.4	6.2	6.3	6.7	6.5	6.6	6.6	6.5	6.6	6.8	6.6	6.7
29	6.3	6.2	6.3	6.7	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.7
30	6.3	6.2	6.2	6.7	6.6	6.7	6.7	6.6	6.6	6.8	6.7	6.7
31	---	---	---	6.7	6.6	6.6	6.7	6.5	6.6	---	---	---
MONTH	6.6	6.2	6.4	6.8	6.1	6.5	6.8	6.2	6.7	6.8	6.4	6.7
YEAR	10.1	6.1	6.6									

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.5	14.0	14.5	6.5	5.5	6.0	1.0	0.5	0.5	0.5	0.5	0.5
2	15.0	14.0	14.5	5.5	4.0	4.5	1.5	0.5	1.0	0.5	0.5	0.5
3	15.0	14.0	15.0	5.0	3.5	4.0	1.5	0.0	0.5	0.5	0.5	0.5
4	15.0	14.0	15.0	6.0	5.0	5.5	0.5	0.0	0.0	0.5	0.5	0.5
5	14.5	13.5	14.0	6.5	6.0	6.0	0.5	0.5	0.5	0.5	0.0	0.0
6	14.5	14.0	14.0	6.0	5.5	5.5	0.5	0.0	0.5	0.0	0.0	0.0
7	15.0	14.5	15.0	5.5	5.0	5.0	2.0	0.0	2.0	0.0	0.0	0.0
8	15.5	14.5	15.0	5.0	4.0	4.5	2.5	0.5	2.0	0.5	0.0	0.0
9	14.5	14.0	14.5	4.5	3.0	3.5	0.5	0.5	0.5	0.5	0.0	0.0
10	14.5	13.0	14.0	3.5	2.5	3.0	1.0	0.0	0.5	0.0	0.0	0.0
11	13.0	12.0	12.5	3.5	2.5	3.0	1.0	0.5	1.0	---	---	---
12	12.0	11.0	11.5	3.0	2.0	2.5	1.0	0.5	1.0	---	---	---
13	11.5	10.5	11.0	2.5	2.0	2.5	1.0	0.5	1.0	---	---	---
14	12.0	11.0	11.5	3.0	2.0	2.5	0.5	0.5	0.5	---	---	---
15	11.0	10.0	10.5	2.5	2.0	2.5	1.0	0.5	1.0	---	---	---
16	11.5	10.5	11.0	2.5	2.0	2.5	1.0	1.0	1.0	---	---	---
17	---	---	---	3.0	2.0	2.5	1.0	0.5	1.0	---	---	---
18	---	---	---	3.0	2.5	2.5	1.0	0.5	1.0	---	---	---
19	---	---	---	3.0	2.0	2.5	1.0	0.5	0.5	---	---	---
20	9.0	7.5	8.0	2.5	1.5	2.0	1.0	0.5	1.0	---	---	---
21	9.5	8.5	9.0	2.0	1.0	1.5	1.5	1.0	1.0	---	---	---
22	8.5	8.0	8.0	2.0	1.0	1.5	0.5	0.5	0.5	---	---	---
23	8.5	7.0	7.5	1.5	1.0	1.5	1.0	0.5	1.0	---	---	---
24	7.5	6.0	7.0	1.5	1.0	1.5	1.0	0.5	1.0	---	---	---
25	7.0	6.5	7.0	2.0	1.0	1.5	0.5	0.5	0.5	---	---	---
26	7.0	6.0	6.5	2.0	1.0	1.5	1.0	0.5	0.5	---	---	---
27	6.0	5.0	5.5	2.5	2.0	2.0	1.0	0.5	0.5	---	---	---
28	5.5	4.0	5.0	2.5	2.0	2.5	0.5	0.5	0.5	---	---	---
29	6.0	4.5	5.0	2.5	1.5	2.0	0.5	0.5	0.5	---	---	---
30	6.0	5.0	5.5	1.5	1.0	1.0	0.5	0.5	0.5	---	---	---
31	6.5	5.5	6.0	---	---	---	0.5	0.5	0.5	---	---	---
MONTH	15.5	4.0	10.5	6.5	1.0	3.0	2.5	0.0	1.0	0.5	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	2.0	0.5	1.0	1.5	0.5	1.0	8.5	6.0	7.0
2	2.5	0.5	1.0	1.5	0.5	1.0	2.0	0.5	1.0	8.0	6.5	7.5
3	6.5	1.5	3.0	2.0	0.5	1.0	1.5	0.5	1.0	9.0	7.0	8.0
4	6.0	1.0	2.5	2.0	0.5	1.5	1.5	0.0	0.5	9.5	7.0	8.5
5	2.5	0.5	1.0	2.0	0.5	1.0	0.5	0.5	0.5	10.0	8.0	9.0
6	0.5	0.0	0.5	2.0	1.0	1.5	1.5	0.5	1.0	9.0	8.0	8.5
7	0.5	0.0	0.5	2.0	1.0	1.5	1.5	0.5	0.5	10.0	8.5	9.0
8	0.5	0.0	0.5	2.0	1.0	1.5	0.5	0.0	0.5	9.5	7.5	8.5
9	0.5	0.0	0.5	3.0	0.5	1.5	1.0	0.0	0.5	10.0	7.5	8.5
10	0.5	0.5	0.5	3.5	1.5	2.5	2.0	0.0	1.0	9.0	7.0	7.5
11	0.5	0.0	0.5	3.0	1.0	2.0	2.5	0.0	1.0	8.0	6.5	7.0
12	1.0	0.5	0.5	3.0	1.0	2.0	3.5	1.0	2.0	9.5	6.5	8.0
13	0.5	0.5	0.5	2.5	1.5	2.0	4.0	2.0	3.0	9.0	8.0	8.5
14	1.0	0.0	0.5	2.0	1.5	1.5	4.0	3.0	3.5	8.0	7.0	7.5
15	1.0	0.5	0.5	3.0	2.0	2.5	4.5	2.5	3.5	9.0	6.5	7.5
16	0.5	0.0	0.5	3.0	2.0	2.5	5.5	3.0	4.0	9.5	7.0	8.0
17	0.5	0.0	0.5	2.5	1.5	2.0	6.0	3.5	5.0	12.5	8.0	10.0
18	0.5	0.0	0.5	3.0	1.5	2.0	6.5	4.0	5.5	13.0	10.0	11.5
19	1.0	0.0	0.5	4.0	2.0	3.0	7.0	4.5	5.5	13.5	11.0	12.0
20	1.0	0.5	1.0	3.5	1.5	2.5	7.5	4.5	6.0	15.0	11.0	12.5
21	1.0	0.5	1.0	3.5	1.5	2.5	7.5	5.0	6.0	16.0	12.5	14.0
22	1.0	0.0	0.5	3.0	1.5	2.0	8.0	6.0	7.0	17.5	13.0	15.0
23	1.0	0.0	0.5	1.5	0.5	1.0	8.0	7.0	7.5	19.0	15.0	17.0
24	1.0	0.0	0.5	1.5	0.5	1.0	7.0	6.5	7.0	20.0	16.5	18.0
25	0.5	0.0	0.5	2.0	0.5	1.0	6.5	6.0	6.0	20.0	18.0	19.0
26	1.0	0.0	0.5	2.5	1.0	2.0	6.5	6.0	6.5	19.5	16.5	18.0
27	1.5	0.5	1.0	3.5	1.0	2.0	7.0	6.0	6.5	18.0	15.5	16.5
28	2.0	1.0	1.5	3.5	1.5	2.5	6.5	6.0	6.0	16.5	14.5	15.5
29	---	---	---	2.0	1.5	2.0	7.0	5.0	6.0	16.0	14.0	15.0
30	---	---	---	3.0	2.0	2.5	7.5	5.5	6.5	17.5	15.5	16.5
31	---	---	---	1.5	1.0	1.5	---	---	---	19.0	15.5	17.0
MONTH	6.5	0.0	1.0	4.0	0.5	2.0	8.0	0.0	3.5	20.0	6.0	11.5

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	16.0	17.5	21.0	19.0	20.0	22.5	21.0	21.5	22.0	20.5	21.0
2	17.0	15.5	16.0	22.0	19.5	20.5	23.5	21.5	22.5	22.0	21.0	21.0
3	16.5	16.0	16.0	22.5	20.0	21.0	24.5	22.0	23.0	22.0	20.5	21.5
4	16.0	15.5	16.0	22.0	20.0	21.0	24.5	22.0	23.0	22.0	20.5	21.0
5	15.5	15.5	15.5	22.0	20.5	21.5	24.5	22.0	23.5	22.0	20.0	20.5
6	15.5	14.0	14.5	22.0	19.5	21.0	24.5	23.0	24.0	20.5	20.0	20.0
7	14.5	13.5	14.0	23.0	19.5	21.0	25.0	23.5	24.0	21.0	20.0	20.5
8	14.0	13.5	13.5	23.0	20.0	21.5	25.0	23.5	24.5	20.5	19.0	19.5
9	15.0	13.0	14.0	22.5	20.5	21.5	24.5	23.5	24.0	20.0	18.5	19.0
10	15.0	13.5	14.0	23.0	21.0	22.0	24.0	22.5	23.5	19.5	18.5	19.0
11	14.5	14.0	14.5	23.5	20.5	22.0	23.5	22.0	22.5	20.0	19.0	19.5
12	15.5	14.0	15.0	23.5	21.0	22.0	22.0	21.5	21.5	19.0	18.0	18.0
13	16.5	15.0	16.0	22.5	21.0	21.5	23.5	22.0	22.5	18.5	17.0	17.5
14	---	---	---	23.5	21.0	22.0	23.5	21.5	22.5	17.0	16.5	16.5
15	---	---	---	25.0	22.0	23.5	23.0	22.0	22.5	16.5	15.0	15.5
16	18.5	16.5	17.5	25.5	23.0	24.0	23.0	21.5	22.0	16.5	15.5	16.0
17	17.5	16.5	17.0	26.0	23.5	24.5	22.5	20.5	21.5	16.5	15.5	16.0
18	16.5	15.5	16.0	26.0	23.5	25.0	22.5	21.0	21.5	16.5	15.5	16.0
19	16.0	15.5	16.0	26.5	24.0	25.5	22.5	20.0	21.5	17.0	16.0	16.5
20	16.0	15.0	15.5	27.0	25.0	26.0	22.5	20.5	21.5	16.5	14.5	15.0
21	15.5	14.5	15.0	28.0	25.5	26.5	22.0	20.0	20.5	14.5	13.0	13.5
22	14.5	14.5	14.5	28.0	25.0	26.0	21.0	20.0	20.0	14.0	13.0	13.5
23	16.0	14.0	15.0	25.0	23.0	23.5	20.0	19.5	20.0	15.0	14.0	14.5
24	17.0	15.0	16.0	24.5	23.0	23.5	20.0	19.5	20.0	15.0	14.0	14.5
25	17.5	16.0	16.5	24.0	22.0	23.0	20.0	19.0	19.5	14.5	13.5	14.0
26	17.0	16.5	17.0	23.0	21.5	22.0	20.0	18.0	19.0	14.5	13.0	13.5
27	18.5	16.5	17.5	22.5	20.5	21.5	21.0	18.5	19.5	15.5	13.5	14.5
28	20.5	17.5	19.0	23.5	21.0	22.0	22.0	19.5	20.5	15.5	14.0	15.0
29	19.5	18.5	19.0	23.5	21.0	22.0	23.0	21.5	22.0	15.5	13.5	14.5
30	20.5	18.5	19.5	22.5	20.5	21.5	23.5	21.5	22.0	14.0	13.0	13.5
31	---	---	---	22.5	20.5	21.0	22.0	21.0	21.5	---	---	---
MONTH	20.5	13.0	16.0	28.0	19.0	22.5	25.0	18.0	22.0	22.0	13.0	17.0
PERIOD	28.0	0.0	9.5									

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	12.4	11.5	11.9	---	---	---	12.1	11.7	11.8
2	---	---	---	11.8	11.5	11.6	---	---	---	12.0	11.7	11.8
3	---	---	---	11.8	11.5	11.6	---	---	---	12.0	11.8	11.9
4	---	---	---	11.8	11.4	11.7	---	---	---	12.0	11.6	11.8
5	---	---	---	11.6	11.3	11.5	---	---	---	11.7	10.8	11.2
6	---	---	---	11.8	11.5	11.7	---	---	---	11.0	10.7	10.8
7	---	---	---	12.1	11.9	12.0	---	---	---	11.0	10.6	10.8
8	---	---	---	12.5	12.0	12.2	---	---	---	10.7	10.5	10.6
9	---	---	---	12.9	12.5	12.7	---	---	---	10.9	10.4	10.6
10	---	---	---	13.2	12.8	13.0	---	---	---	10.8	10.3	10.6
11	---	---	---	13.4	12.9	13.2	---	---	---	---	---	---
12	---	---	---	14.0	13.3	13.7	---	---	---	---	---	---
13	---	---	---	14.1	13.6	13.9	---	---	---	---	---	---
14	9.2	8.8	8.9	13.9	13.4	13.6	---	---	---	---	---	---
15	9.6	9.1	9.3	14.2	13.5	13.9	---	---	---	---	---	---
16	9.3	9.0	9.1	14.4	13.5	14.0	---	---	---	---	---	---
17	---	---	---	14.3	13.3	13.8	---	---	---	---	---	---
18	---	---	---	13.3	12.7	12.9	---	---	---	---	---	---
19	---	---	---	13.2	12.5	12.9	---	---	---	---	---	---
20	11.4	10.1	10.9	12.8	12.2	12.5	---	---	---	---	---	---
21	11.0	10.5	10.8	12.4	11.6	12.0	---	---	---	---	---	---
22	11.3	11.0	11.1	---	---	---	---	---	---	---	---	---
23	11.6	11.3	11.5	---	---	---	---	---	---	---	---	---
24	11.9	11.5	11.7	---	---	---	---	---	---	---	---	---
25	11.7	11.3	11.5	---	---	---	---	---	---	---	---	---
26	11.6	11.3	11.5	---	---	---	---	---	---	---	---	---
27	11.7	11.4	11.5	---	---	---	---	---	---	---	---	---
28	11.4	11.2	11.3	---	---	---	---	---	---	---	---	---
29	12.5	11.2	11.8	---	---	---	---	---	---	---	---	---
30	12.5	12.0	12.3	---	---	---	---	---	---	---	---	---
31	12.1	11.7	11.9	---	---	---	---	---	---	---	---	---
MONTH	12.5	8.8	11.0	14.4	11.3	12.7	---	---	---	12.1	10.3	11.2

01021050 ST. CROIX RIVER AT MILLTOWN, ME--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	9.2	8.6	8.9	14.1	13.5	13.8	12.4	12.2	12.3
2	12.4	11.9	12.2	12.2	8.6	10.0	14.3	14.0	14.2	12.0	11.7	11.9
3	12.2	10.6	11.7	10.2	9.0	9.5	14.2	14.0	14.1	11.6	11.2	11.4
4	12.0	10.7	11.7	9.8	9.2	9.6	14.3	14.1	14.2	11.3	10.9	11.1
5	12.2	10.4	11.3	11.0	9.3	10.1	14.2	14.1	14.1	11.1	10.5	10.7
6	11.2	10.1	10.6	9.6	8.9	9.3	14.0	13.9	14.0	10.6	10.3	10.5
7	10.8	10.2	10.4	9.3	8.9	9.1	14.0	13.8	13.9	10.4	10.1	10.3
8	11.3	10.5	10.9	9.2	8.9	9.0	14.0	13.9	14.0	10.6	10.1	10.4
9	10.9	10.4	10.6	9.3	8.6	9.0	13.9	13.8	13.8	10.4	10.2	10.3
10	10.6	9.9	10.2	9.1	8.8	8.9	13.8	13.5	13.7	10.6	10.1	10.3
11	10.2	9.5	10.0	9.4	8.9	9.2	13.6	13.4	13.5	11.1	10.6	10.8
12	10.0	9.5	9.8	9.1	8.9	9.0	13.4	13.0	13.3	11.1	10.7	10.9
13	10.6	9.6	10.0	9.1	8.8	9.0	12.9	12.7	12.8	10.8	10.5	10.7
14	11.1	9.6	10.1	9.0	8.7	8.9	12.6	12.4	12.5	11.3	10.8	11.0
15	10.4	9.0	9.7	8.9	7.5	8.2	12.6	12.4	12.5	11.3	10.9	11.1
16	10.2	9.2	9.8	7.8	7.4	7.6	12.4	12.2	12.3	11.0	10.7	10.9
17	11.9	9.8	11.3	7.8	7.4	7.6	12.2	12.1	12.2	10.6	9.8	10.4
18	10.7	10.2	10.4	8.0	7.3	7.6	12.2	12.0	12.1	9.8	9.3	9.6
19	10.6	9.7	10.2	8.2	7.4	7.8	12.1	11.9	12.0	9.8	9.3	9.6
20	9.9	9.3	9.6	8.3	7.4	7.8	12.0	11.8	11.9	9.5	8.9	9.3
21	10.0	8.9	9.3	7.8	7.3	7.6	11.9	11.6	11.8	9.0	8.7	8.8
22	10.6	9.3	9.9	11.4	7.7	9.6	11.5	11.2	11.4	9.4	8.0	8.6
23	11.0	9.3	9.9	11.6	11.3	11.4	11.2	11.1	11.1	8.0	7.3	7.7
24	10.4	9.6	9.9	11.5	11.4	11.4	11.1	11.0	11.0	7.6	6.8	7.2
25	11.7	9.5	10.4	11.5	11.3	11.4	11.2	11.0	11.1	7.4	6.6	7.0
26	11.2	9.0	10.0	11.5	11.2	11.4	13.2	11.4	11.8	8.1	6.9	7.6
27	9.6	8.8	9.2	11.5	11.2	11.4	13.0	12.8	12.9	8.5	6.6	7.7
28	9.1	8.3	8.8	11.2	11.0	11.1	12.8	12.7	12.8	8.1	7.5	7.8
29	---	---	---	11.6	11.0	11.3	12.8	12.5	12.6	8.0	7.7	7.9
30	---	---	---	11.4	11.3	11.4	12.7	12.4	12.5	8.2	7.0	7.7
31	---	---	---	13.6	13.0	13.2	---	---	---	8.1	7.4	7.7
MONTH	12.4	8.3	10.3	13.6	7.3	9.6	14.3	11.0	12.8	12.4	6.6	9.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.7	7.5	8.1	8.2	7.8	8.0	6.8	6.2	6.4	6.7	6.0	6.3
2	8.3	7.2	7.6	8.1	7.6	7.9	6.6	5.9	6.4	6.6	5.9	6.1
3	7.7	6.9	7.2	8.1	7.6	7.8	6.7	5.9	6.3	6.6	5.8	6.1
4	8.6	7.5	8.2	7.8	7.1	7.4	6.6	5.9	6.2	6.8	6.2	6.5
5	9.1	8.4	8.6	7.9	7.3	7.5	6.5	5.9	6.2	6.8	6.0	6.3
6	9.5	9.0	9.2	8.1	7.5	7.8	6.3	5.5	5.8	6.6	6.0	6.2
7	9.6	9.3	9.5	7.9	7.4	7.7	6.1	5.5	5.7	6.7	6.3	6.6
8	9.4	9.2	9.2	7.8	7.2	7.5	5.9	5.2	5.6	6.9	6.4	6.6
9	9.5	9.2	9.4	7.5	7.2	7.4	6.0	5.3	5.7	7.1	6.7	6.9
10	9.1	8.8	9.0	7.6	7.0	7.3	6.0	5.4	5.6	7.3	6.9	7.1
11	9.1	8.6	8.9	7.4	7.0	7.2	6.0	5.3	5.6	7.3	6.6	6.9
12	9.0	8.9	8.9	7.2	6.6	7.0	5.6	5.2	5.3	7.4	6.9	7.1
13	8.8	8.5	8.7	7.0	6.6	6.7	6.0	5.2	5.5	7.4	6.7	6.9
14	---	---	---	6.7	6.4	6.5	6.0	5.3	5.5	7.3	6.9	7.1
15	---	---	---	6.6	6.1	6.4	6.1	5.4	5.6	8.0	7.3	7.7
16	7.9	7.6	7.8	6.6	6.0	6.3	6.2	5.6	5.8	8.0	7.5	7.8
17	7.9	7.5	7.7	6.3	5.9	6.1	6.2	5.6	5.8	7.9	7.5	7.6
18	8.1	7.6	7.8	6.0	5.5	5.8	6.3	5.5	5.8	7.8	7.5	7.6
19	8.1	8.0	8.0	6.4	5.2	5.8	6.4	5.7	6.0	7.8	7.3	7.5
20	8.5	8.1	8.3	6.1	5.3	5.6	6.2	5.7	5.9	8.4	7.6	7.9
21	8.7	8.6	8.6	5.7	5.0	5.4	6.3	5.7	6.0	8.4	8.2	8.3
22	8.7	8.4	8.6	5.7	4.9	5.3	6.3	5.7	6.0	8.6	8.1	8.3
23	8.9	8.8	8.9	6.2	5.1	5.7	6.1	5.7	5.8	8.5	8.1	8.3
24	8.9	8.8	8.9	6.1	5.4	5.7	6.1	5.5	5.8	8.5	8.1	8.2
25	8.8	8.6	8.7	6.1	5.3	5.7	7.1	5.7	6.3	8.6	8.2	8.4
26	8.7	8.6	8.6	6.2	5.3	5.7	7.3	6.6	6.9	8.7	8.2	8.4
27	8.7	8.3	8.5	6.3	5.7	6.0	7.1	6.6	6.8	8.8	8.0	8.3
28	8.5	8.2	8.3	6.3	5.7	6.0	7.0	6.2	6.5	8.4	7.9	8.1
29	8.3	8.0	8.2	6.3	5.7	6.0	6.7	5.8	6.1	8.4	7.8	8.0
30	8.0	7.7	7.3	6.2	5.5	5.8	6.5	5.5	6.0	8.4	8.0	8.2
31	---	---	---	6.7	5.5	6.2	6.5	5.9	6.2	---	---	---
MONTH	9.6	6.9	8.5	8.2	4.9	6.6	7.3	5.2	6.0	8.8	5.8	7.4
PERIOD	14.4	4.9	9.3									

01021200 DENNYS RIVER AT DENNYSVILLE, ME

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, Hydrologic Unit 01050002, on right bank 100 ft (30 m) upstream from railroad bridge, 0.9 mi (1.4 km) upstream from Cathance Stream, and 1 mi (1.6 km) west of Dennysville.

DRAINAGE AREA.--92.4 mi² (239.3 km²).

PERIOD OF RECORD.--Discharge: October 1955 to current year.
Water temperatures: October 1958 to September 1972.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft (16.700 m) above mean sea level.

REMARKS.--Records good. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 mi (22 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--22 years, 192 ft³/s (5.44 m³/s), 28.22 in/yr (717 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,930 ft³/s (111 m³/s) Apr. 29, 1973, gage height, 9.35 ft (2.850 m); minimum, 8.4 ft³/s (0.24 m³/s) Oct. 1, 1957, gage height, 0.28 ft (0.085 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 21	1900	878	24.9	4.12	1.256	Apr. 6	2100	942	26.7	4.28	1.305
Mar. 15	1600	*1030	29.2	*4.50	1.372	Apr. 15	0100	802	22.7	3.93	1.198
Apr. 1	0500	950	26.9	4.30	1.311						

Minimum discharge, 38 ft³/s (1.08 m³/s) Aug. 30, gage height, 0.78 ft (0.238 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	228	173	218	202	328	918	224	61	154	58	54
2	49	220	142	196	184	305	754	206	56	141	56	55
3	47	171	166	175	169	272	676	204	59	131	55	56
4	46	160	155	161	163	246	750	182	94	122	51	55
5	43	332	104	157	158	260	648	168	305	115	60	54
6	43	332	84	149	153	300	866	161	514	110	58	55
7	46	282	106	142	150	285	842	161	365	105	50	54
8	46	226	333	141	149	230	617	155	368	102	47	52
9	76	190	242	136	147	248	520	149	362	99	43	52
10	443	166	160	134	142	268	502	173	256	98	39	52
11	376	152	136	254	140	388	463	302	394	95	39	57
12	234	142	120	275	138	475	421	260	718	94	40	54
13	158	133	112	254	137	541	568	190	715	102	45	53
14	147	126	94	212	137	636	722	145	571	126	45	246
15	152	123	105	180	170	974	774	125	237	101	48	318
16	129	120	102	163	220	1000	662	111	387	96	45	188
17	108	117	100	152	210	898	598	102	254	92	146	126
18	104	116	99	145	200	770	589	116	227	90	180	97
19	111	116	100	139	190	719	553	126	498	87	117	80
20	100	112	103	135	185	642	511	108	637	85	80	68
21	707	110	129	130	183	577	490	102	676	85	63	67
22	878	105	152	125	180	523	520	102	750	84	55	97
23	502	98	144	122	175	421	565	93	711	81	57	91
24	278	93	137	120	175	322	520	80	640	80	55	76
25	212	93	131	118	185	290	544	68	477	82	52	65
26	214	96	145	117	226	288	514	68	303	98	48	58
27	186	98	433	117	232	338	439	60	299	87	45	290
28	157	105	418	120	268	403	373	58	204	78	42	308
29	136	150	335	191	---	442	345	84	159	61	41	201
30	123	200	282	248	---	601	270	88	166	58	39	163
31	124	---	248	232	---	786	---	72	---	61	48	---
TOTAL	6029	4712	5290	5158	4968	14776	17534	4243	11463	3000	1847	3242
MEAN	194	157	171	166	177	477	584	137	382	96.8	59.6	108
MAX	878	332	433	275	268	1000	918	302	750	154	180	318
MIN	43	93	84	117	137	230	270	58	56	58	39	52
CFSM	2.10	1.70	1.85	1.80	1.92	5.16	6.32	1.48	4.13	1.05	.65	1.17
IN.	2.43	1.90	2.13	2.08	2.00	5.95	7.06	1.71	4.61	1.21	.74	1.31

CAL YR 1976 TOTAL 89586 MEAN 245 MAX 1760 MIN 35 CFSM 2.65 IN 36.07
WTR YR 1977 TOTAL 82262 MEAN 225 MAX 1000 MIN 39 CFSM 2.44 IN 33.12

01021500 MACHIAS RIVER AT WHITNEYVILLE, ME

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, Hydrologic Unit 01050002, on right bank 800 ft (244 m) downstream from highway bridge at Whitneyville.

DRAINAGE AREA.--457 mi² (1,184 km²).

PERIOD OF RECORD.--October 1905 to September 1921, September 1929 to September 1976 (discontinued). Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

REVISED RECORDS.--WSP 971: Drainage area. WSP 1231: 1907-15, 1916-21(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft (11.345 m) above mean sea level. October 1, 1905, to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--64 years, 939 ft³/s (26.59 m³/s), 27.90 in/yr (709 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft³/s (419 m³/s) May 29, 1961, gage height, 16.92 ft (5.157 m); minimum daily, 3.5 ft³/s (0.099 m³/s) Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft³/s (90.6 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 22	0400	3450	97.7	7.36	2.243	Apr. 1	2400	5900	167	9.94	3.030
Mar. 15	2400	*7290	206	*11.20	3.414						

Minimum discharge, 99 ft³/s (2.80 m³/s) Sept. 10, gage height, 3.01 ft (0.917 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	1200	670	1050	980	1880	5360	1780	451	1090	189	120
2	185	1210	604	940	880	2000	4970	1620	412	1000	175	118
3	175	1030	761	860	800	1800	4180	1540	503	882	171	114
4	166	928	791	810	750	1600	4340	1450	835	773	160	115
5	158	1430	704	760	700	1620	4100	1340	1960	695	155	117
6	155	1600	503	720	650	1660	4420	1230	2320	631	153	127
7	190	1370	473	700	600	1560	4430	1180	1910	574	153	128
8	310	1160	1350	660	580	1430	3740	1130	1830	522	153	125
9	370	1000	1600	650	530	1330	3080	1050	1820	474	144	114
10	1890	871	1150	640	500	1510	2680	1090	1480	446	134	107
11	1920	781	800	1000	480	2020	2430	1670	1770	418	127	118
12	1320	712	665	1300	450	2340	2290	1530	2880	389	130	114
13	908	663	600	1200	445	2550	2420	1270	2910	402	140	105
14	718	634	545	940	450	4150	2650	1100	2380	484	143	457
15	662	604	515	860	460	6790	2860	984	1840	466	148	1310
16	582	585	495	810	490	7010	2760	874	1540	418	148	825
17	509	563	485	760	490	6250	2660	790	1310	377	378	534
18	469	547	480	710	470	5230	2610	755	1240	347	830	404
19	470	534	500	690	455	4320	2550	725	1290	324	545	331
20	449	523	525	660	445	3800	2460	663	1420	307	381	277
21	1720	487	600	630	435	3200	2380	618	1510	302	290	262
22	3310	426	795	600	430	2750	2410	579	2000	292	227	331
23	2520	484	720	590	420	2620	2600	547	2030	269	214	342
24	1720	462	680	580	415	2510	2680	513	1720	242	212	291
25	1300	417	650	570	500	2400	2780	504	1410	230	204	260
26	1230	390	700	565	700	2310	2890	527	1280	280	186	232
27	1130	416	1600	560	640	2450	2600	480	1550	252	167	719
28	1000	433	1900	600	820	2750	2330	438	1460	217	154	1490
29	892	532	1600	800	---	3100	2120	507	1220	195	143	1100
30	812	830	1300	1180	---	3470	1950	577	1120	182	137	774
31	825	---	1180	1100	---	4360	---	512	---	188	127	---
TOTAL	28261	22822	25941	24495	15965	92770	91730	29573	47401	13668	6618	11461
MEAN	912	761	837	790	570	2993	3058	954	1580	441	213	382
MAX	3310	1600	1900	1300	980	7010	5360	1780	2910	1090	830	1490
MIN	155	390	473	560	415	1330	1950	438	412	182	127	105
CFSM	2.00	1.67	1.83	1.73	1.25	6.55	6.69	2.09	3.46	.96	.47	.84
IN.	2.30	1.86	2.11	1.99	1.30	7.55	7.47	2.41	3.86	1.11	.54	.93

CAL YR 1976 TOTAL 459241 MEAN 1255 MAX 12000 MIN 155 CFSM 2.75 IN 37.38
WTR YR 1977 TOTAL 410705 MEAN 1125 MAX 7010 MIN 105 CFSM 2.46 IN 33.43

01022500 NARRAGUAGUS RIVER AT CHERRYFIELD, ME

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, Hydrologic Unit 01050002, on left bank 800 ft (244 m) upstream from railroad bridge at Cherryfield and 0.7 mi (1.1 km) downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--232 mi^2 (601 km^2).

PERIOD OF RECORD.--February 1948 to current year.

REVISED RECORDS.--WSP 1301: 1948(M).

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft (13.47 m) above mean sea level. Prior to July 1, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--29 years, 495 ft^3/s (14.02 m^3/s), 28.99 in/yr (736 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) May 28, 1961, gage height, 17.40 ft (5.304 m); minimum, 20 ft^3/s (0.57 m^3/s) Sept. 22, 23, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 21	2300	2260	64.0	11.83	3.606	Apr. 1	0800	2790	79.0	12.39	3.776
Mar. 15	1500	*5250	149	*14.47	4.410						

Minimum discharge, 55 ft^3/s (1.56 m^3/s) Sept. 10, gage height, 7.31 ft (2.228 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	571	375	410	450	737	2750	696	205	429	92	67
2	100	525	374	364	400	617	2640	630	202	408	92	65
3	96	450	380	330	350	549	2570	595	322	359	89	66
4	91	452	351	310	330	470	2570	548	580	312	83	66
5	85	808	297	300	310	502	2260	507	1020	278	79	69
6	114	741	264	295	290	583	2570	477	1010	244	78	72
7	224	661	330	285	280	525	2320	463	918	218	79	71
8	178	573	944	280	260	472	1840	438	957	198	77	66
9	206	492	829	280	250	452	1460	410	907	187	73	61
10	921	434	615	452	245	572	1210	456	723	177	69	60
11	810	400	534	547	240	825	1040	637	682	165	68	70
12	606	366	434	634	235	960	1000	597	953	156	76	63
13	454	334	397	598	230	1110	1070	540	1110	177	90	61
14	395	313	352	510	230	2380	1170	488	935	202	84	291
15	371	300	308	495	230	5040	1270	437	735	201	89	553
16	323	288	294	410	240	4450	1230	397	585	184	90	424
17	290	280	275	390	274	3610	1140	371	484	166	255	331
18	264	342	260	365	263	2760	1070	361	473	152	482	269
19	260	344	255	350	241	2290	1030	338	470	140	344	223
20	237	323	250	330	227	1790	975	320	488	130	252	186
21	1400	296	325	315	220	1510	921	297	539	125	192	194
22	1980	287	469	305	218	1250	897	278	708	121	157	275
23	1490	276	400	295	215	1190	981	262	749	101	154	252
24	1070	267	360	290	213	1030	1060	244	671	91	148	212
25	800	261	330	290	264	926	1260	232	563	94	133	211
26	720	253	350	290	375	916	1290	223	508	135	117	180
27	627	261	601	288	332	1050	1130	201	637	111	102	698
28	532	271	582	304	549	1270	969	190	585	96	93	879
29	467	343	530	419	---	1450	864	220	489	89	87	663
30	421	440	487	534	---	1640	774	233	444	87	80	492
31	406	---	447	514	---	2240	---	225	---	94	74	---
TOTAL	16045	11952	12999	11779	7961	45166	43331	12311	19652	5627	3978	7190
MEAN	518	398	419	380	284	1457	1444	397	655	182	128	240
MAX	1980	808	944	634	549	5040	2750	696	1110	429	482	879
MIN	85	253	250	280	213	452	774	190	202	87	68	60
CFSM	2.23	1.72	1.81	1.64	1.22	6.28	6.22	1.71	2.82	.78	.55	1.03
IN.	2.57	1.92	2.08	1.89	1.28	7.24	6.95	1.97	3.15	.90	.64	1.15

CAL YR 1976 TOTAL 224224 MEAN 613 MAX 6340 MIN 82 CFSM 2.64 IN 35.95
WTR YR 1977 TOTAL 197991 MEAN 542 MAX 5040 MIN 60 CFSM 2.34 IN 31.75

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01023000 WEST BRANCH UNION RIVER AT AMHERST, ME

LOCATION.--Lat 44°50'25", long 68°22'22", Hancock County, Hydrologic Unit 01050002, on right bank 200 ft (61 m) upstream from site of old tannery dam, 0.6 mi (1.0 km) upstream from Indian Camp Brook, and 0.7 mi (1.1 km) northwest of Amherst.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--July 1909 to September 1919, July 1929 to current year. Published as Union River at Amherst, October 1910 to September 1913.

REVISED RECORDS.--WSP 801: 1935. WSP 821: Drainage area. WSP 1231: 1912-15, 1916-19(M). WSP 1301: 1901-11.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. July 1909 to September 1919, nonrecording gage at highway bridge 1 mi (1.6 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--58 years, 268 ft³/s (7.590 m³/s), 24.59 in/yr (625 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,140 ft³/s (117 m³/s) Apr. 13, 1940, gage height, 9.58 ft (2.920 m); maximum gage height, 10.41 ft (3.173 m) Mar. 9, 1942 (ice jam); minimum discharge, 2.6 ft³/s (0.074 m³/s) July 28, 1965, gage height, 2.75 ft (0.838 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 15	1500	*2250	63.7	*7.60	2.316	Apr. 4	1400	1520	43.0	6.64	2.028

Minimum discharge, 26 ft³/s (0.74 m³/s) Aug. 14, gage height, 3.27 ft (0.997 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	283	280	240	195	300	1370	579	109	357	48	44
2	82	280	305	225	180	265	1280	534	258	342	44	42
3	77	261	235	215	170	230	1350	501	504	311	41	42
4	71	265	205	207	160	250	1460	457	688	266	37	42
5	65	322	185	203	155	310	1400	429	824	235	34	43
6	62	348	170	200	150	355	1410	402	837	200	38	48
7	60	349	215	195	145	310	1320	371	846	172	37	44
8	58	327	300	190	140	290	1190	337	873	149	35	42
9	75	298	425	190	135	275	1060	310	823	138	32	38
10	206	265	465	190	130	420	913	299	750	127	30	34
11	217	238	380	250	130	580	788	334	721	112	31	34
12	241	217	335	325	125	690	708	331	799	102	29	30
13	240	197	285	310	125	888	690	329	735	130	29	30
14	225	181	250	285	122	1320	787	311	651	137	27	97
15	205	172	220	260	120	2140	835	282	576	128	34	115
16	182	164	205	235	117	2130	840	256	520	116	31	139
17	163	158	195	220	115	1930	855	236	463	104	82	163
18	153	151	190	205	115	1800	872	228	438	95	96	156
19	143	147	185	195	113	1380	875	209	412	86	118	140
20	130	144	180	188	110	872	863	188	403	78	133	123
21	320	144	210	180	110	676	849	172	405	71	123	114
22	458	145	250	175	107	640	845	159	458	66	107	103
23	458	123	275	170	105	644	855	148	502	59	100	93
24	434	123	255	170	103	606	835	137	493	51	92	85
25	413	114	225	165	103	562	883	128	459	46	88	78
26	391	111	215	165	110	534	868	121	428	48	80	78
27	351	112	350	160	115	543	805	106	434	45	72	259
28	313	116	330	160	130	574	749	98	393	40	65	294
29	283	170	300	195	---	639	700	114	356	37	60	325
30	260	206	275	220	---	753	636	114	379	48	56	329
31	248	---	255	210	---	1160	---	116	---	54	50	---
TOTAL	6672	6131	8150	6498	3635	24066	28891	8336	16537	3950	1879	3204
MEAN	215	204	263	210	130	776	963	269	551	127	60.6	107
MAX	458	349	465	325	195	2140	1460	579	873	357	133	329
MIN	58	111	170	160	103	230	636	98	109	37	27	30
CFSM	1.45	1.38	1.78	1.42	.88	5.24	6.51	1.82	3.72	.86	.41	.72
IN.	1.68	1.54	2.05	1.63	.91	6.05	7.26	2.10	4.16	.99	.47	.81

CAL YR 1976 TOTAL 143501 MEAN 392 MAX 2840 MIN 54 CFSM 2.65 IN 36.07
WTR YR 1977 TOTAL 117949 MEAN 323 MAX 2140 MIN 27 CFSM 2.18 IN 29.65

01024200 GARLAND BROOK NEAR MARIAVILLE, ME

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, Hydrologic Unit 01050002, on left bank 22 ft (6.7 m) upstream from State Highway 181, 1.2 mi (1.9 km) upstream from mouth, and 1.5 mi (2.4 km) north of Mariaville.

DRAINAGE AREA.--9.80 mi^2 (25.38 km^2).

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 125 ft (38 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years, 22.0 ft^3/s (0.623 m^3/s), 30.49 in/yr (774 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft^3/s (34.8 m^3/s) Dec. 27, 1969, gage height, 13.47 ft (4.106 m); minimum, 0.24 ft^3/s (0.007 m^3/s) Sept. 22-25, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.25 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 8	0100	225	6.37	6.65	2.027	Mar. 31	1730	302	8.55	7.37	2.246
Mar. 15	0030	*434	12.3	*8.48	2.585						

Minimum discharge, 0.89 ft^3/s (0.025 m^3/s) Sept. 8, gage height, 2.59 ft (0.789 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	24	20	10	12	19	194	24	4.8	22	2.8	1.4
2	4.3	21	15	9.7	11	21	106	22	35	20	2.4	1.2
3	4.1	19	12	9.5	10	17	163	23	54	13	2.1	1.5
4	3.9	23	11	9.3	10	11	142	20	40	10	1.8	1.4
5	3.8	48	10	9.1	9.2	9.8	91	18	42	8.1	1.6	1.2
6	3.7	40	8.8	9.0	8.5	15	111	17	36	7.1	2.0	1.2
7	3.6	32	33	8.8	8.0	13	85	17	34	6.3	2.1	1.2
8	3.6	27	123	8.7	7.5	12	60	16	39	5.6	2.1	1.0
9	5.0	23	45	8.7	7.1	12	52	15	27	5.4	1.9	1.0
10	23	20	25	8.6	6.7	13	44	21	19	5.1	1.5	6.4
11	19	18	20	10	6.4	25	38	30	20	5.0	1.5	9.4
12	16	16	16	20	6.1	46	43	22	38	4.8	1.6	10
13	14	15	14	18	5.9	67	58	19	28	8.2	1.8	11
14	12	14	11	16	5.6	184	77	16	19	9.1	1.7	46
15	12	13	10	14	5.4	368	62	15	14	8.3	3.9	31
16	10	12	11	13	5.2	291	53	13	11	7.2	3.4	12
17	10	12	11	13	5.1	200	50	12	9.5	6.3	46	7.0
18	9.6	11	11	12	5.1	154	47	12	13	5.7	31	5.5
19	9.4	11	10	12	5.0	115	42	11	13	5.1	11	5.1
20	9.1	13	10	11	5.0	79	37	9.8	19	4.6	5.9	4.2
21	45	14	25	11	5.0	62	34	9.2	30	4.2	4.1	6.0
22	38	12	26	10	4.9	53	34	8.5	36	3.8	3.4	7.3
23	32	12	18	10	4.9	45	39	7.9	29	3.4	3.8	5.3
24	28	11	14	9.9	4.9	40	38	6.8	20	3.2	4.0	4.1
25	25	12	12	9.8	5.4	34	66	6.1	19	3.0	3.8	3.7
26	23	11	12	9.7	7.8	32	49	5.3	18	3.2	3.1	5.9
27	22	11	19	9.6	7.6	34	37	4.6	20	2.9	2.6	69
28	21	14	17	9.6	16	39	32	4.9	19	2.5	2.2	31
29	20	32	12	11	---	58	30	9.6	20	2.3	2.1	17
30	18	36	11	15	---	104	26	8.0	25	2.8	1.9	18
31	20	---	10	13	---	232	---	6.1	---	3.3	1.6	---
TOTAL	472.6	577	602.8	349.0	201.3	2404.8	1940	429.8	751.3	201.5	160.7	326.0
MEAN	15.2	19.2	19.4	11.3	7.19	77.6	64.7	13.9	25.0	6.50	5.18	10.9
MAX	45	48	123	20	16	368	194	30	54	22	46	69
MIN	3.6	11	8.8	8.6	4.9	9.8	26	4.6	4.8	2.3	1.5	1.0
CFSM	1.55	1.96	1.98	1.15	.73	7.92	6.60	1.42	2.55	.66	.53	1.11
IN.	1.79	2.19	2.29	1.32	.76	9.13	7.36	1.63	2.85	.76	.61	1.24

CAL YR 1976 TOTAL 10148.7 MEAN 27.7 MAX 560 MIN 3.6 CFSM 2.83 IN 38.52
WTR YR 1977 TOTAL 8416.8 MEAN 23.1 MAX 368 MIN 1.0 CFSM 2.36 IN 31.95

NOTE.--No gage-height record Jan. 2 to Feb. 4.

01029500 EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, Hydrologic Unit 01020002, on left bank 500 ft (152 m) downstream from Bangor & Aroostook Railroad bridge, 0.5 mi (0.8 km) south of Grindstone, and 9.5 mi (15.3 km) upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,090 mi² (2,823 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1902 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 501: Drainage area. WSP 1301: 1907-12, 1914-29(M). WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 294.74 ft (89.837 m) above mean sea level. Prior to June 30, 1929, nonrecording gage on railroad bridge at same datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (Reservoirs in Penobscot River basin). Final regulation at Grand Lake Dam 35 mi (56 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--75 years, 1,940 ft³/s (54.94 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,000 ft³/s (1,050 m³/s) Apr. 30, 1923, gage height, 16.9 ft (5.15 m), site then in use, present datum; minimum daily (1914-77), 77 ft³/s (2.18 m³/s) Nov. 19, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s (371 m³/s) Apr. 23, gage height, 10.43 ft (3.179 m); minimum daily, 517 ft³/s (14.6 m³/s) Aug. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	833	2840	991	1020	1230	1000	6230	7650	1220	4320	739	789
2	760	3140	981	1050	1220	970	6390	7220	1170	4050	823	798
3	721	2870	897	1180	1220	960	5940	7580	1260	3720	823	780
4	1060	2730	1000	1220	1220	940	5440	6990	1440	2980	691	764
5	1180	4680	1070	1200	1400	920	5250	7020	1820	1890	615	764
6	1170	4900	1060	1150	1550	910	4840	6990	2260	1500	638	930
7	1170	4310	1030	1100	1560	900	4550	7380	2480	1320	652	980
8	1230	3780	1770	1060	1530	880	4180	7080	2860	1220	608	876
9	2530	3400	2070	1070	1500	860	3980	6010	2740	1130	608	814
10	5990	2710	1790	1100	1480	860	3720	5410	2390	1060	565	1030
11	5280	2120	1490	1200	1450	940	3540	4750	1990	992	579	1120
12	3320	2040	1350	1370	1420	1050	3460	4360	2990	934	600	1100
13	2830	1970	1310	1600	1380	1200	3720	4310	3790	923	600	1080
14	2650	1780	1250	1680	1350	1500	4090	4270	3390	940	565	1300
15	2680	1720	1190	1680	1320	2000	4180	3890	2920	901	593	2290
16	2570	1650	1170	1660	1300	2750	4230	3110	2590	846	579	1970
17	3120	1600	1130	1640	1280	4000	4700	2470	2120	797	572	1570
18	1950	1560	1110	1620	1250	4320	5470	2990	3710	805	622	1170
19	1490	1520	1040	1580	1230	4170	6170	2780	4220	760	565	990
20	1390	1490	980	1540	1200	4000	6620	2510	4790	719	517	912
21	3680	1360	1050	1500	1180	3850	7530	2380	6670	697	517	876
22	9230	1410	1100	1480	1150	3590	9840	2330	7390	664	530	849
23	7330	1390	1110	1450	1130	3270	12600	2440	7360	719	645	2470
24	5780	1460	1110	1410	1110	2990	11800	2230	6390	765	638	2970
25	4980	1310	1070	1380	1090	2810	10500	2030	4850	752	1050	2680
26	4320	1220	1030	1360	1070	2760	10600	1920	4780	723	960	2650
27	3460	1300	1150	1340	1040	3010	9900	1710	4950	615	691	3800
28	2780	1350	1150	1320	1020	3120	9560	1540	4390	565	608	2550
29	2400	1290	1120	1300	---	3170	10100	1630	3910	537	565	1590
30	2270	1060	1070	1280	---	3190	9050	1650	4150	586	537	1870
31	2200	---	1040	1250	---	4040	---	1390	---	858	699	---
TOTAL	92354	65960	36679	41790	35880	70930	198180	126020	106990	39288	19994	44332
MEAN	2979	2199	1183	1348	1281	2288	6606	4065	3566	1267	645	1478
MAX	9230	4900	2070	1680	1560	4320	12600	7650	7390	4320	1050	3800
MIN	721	1060	897	1020	1020	860	3460	1390	1170	537	517	764

CAL YR 1976 TOTAL 1126129 MEAN 3077 MAX 20500 MIN 490
WTR YR 1977 TOTAL 878397 MEAN 2407 MAX 12600 MIN 517

01030000 PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, Hydrologic Unit 01020005, on left bank 700 ft (213 m) downstream from Mattaseunk Dam and powerhouse, 1.3 mi (2.1 km) upstream from Mattaseunk Brook, and 4.5 mi (7.2 km) upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 mi^2 (8.692 km^2), including 249 mi^2 (645 km^2) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--June 1940 to current year.

REVISED RECORDS.--WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft (58.436 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 5,773 ft^3/s (163.5 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft^3/s (1,870 m^3/s) Apr. 29, 1973, gage height, 16.89 ft (5.148 m), backwater from Mattawamkeag River; minimum daily, 1,430 ft^3/s (40.5 m^3/s) Aug. 17, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,800 ft^3/s (702 m^3/s) Apr. 25, gage height, 8.72 ft (2.658 m); minimum daily, 2,300 ft^3/s (65.1 m^3/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4580	8810	5000	4880	5800	5250	12700	13600	4700	15200	4300	4150
2	5010	8910	5100	5100	5600	5700	14400	12300	4540	13600	4300	4350
3	4610	8310	4980	5000	5600	5250	13300	12800	4780	8770	4150	4250
4	5580	7950	4920	4900	5400	5300	12600	11600	5200	6880	4100	3000
5	5800	11000	4900	4810	5800	5400	12400	10800	5820	6920	4170	2400
6	5210	14200	4900	5000	5800	5200	11700	10800	5450	7210	4000	3200
7	5000	15000	4950	4800	5600	5080	11000	11000	6390	6250	4200	3900
8	5610	13700	5800	4800	5800	5160	9890	10700	6570	5800	4050	4000
9	8530	13300	5200	5080	5900	4890	9890	10000	7380	5600	3900	3550
10	15100	12500	4680	5050	6200	5040	8770	9600	6800	5550	3850	3900
11	14200	11100	5210	5380	5950	5120	8220	9210	6920	5400	4000	4000
12	10300	9770	5000	5260	5900	5530	8350	9050	7770	5400	4800	3700
13	8810	9060	4620	5300	6000	5650	9230	8500	7820	5450	5800	4000
14	8720	8810	4580	5250	6000	6520	9060	8600	6250	5400	5650	4650
15	11200	8530	4250	5220	5850	7090	9530	8300	7430	5400	5000	5800
16	9060	6370	4280	5200	5600	8040	9960	7400	7050	5600	4500	5200
17	8910	6450	4310	5220	5200	8220	10700	5800	6210	5500	4050	4800
18	9960	6240	4490	5530	5750	8130	12200	6400	8810	5400	4100	4350
19	7300	6210	4490	5050	5700	8440	13100	6850	10600	5000	4100	4000
20	4890	5990	4620	5400	5600	8260	13600	6800	10600	4500	4100	3650
21	5820	5400	5340	5850	5600	7640	15100	6600	13100	4400	4100	3700
22	15900	5000	5300	5250	5600	7130	17600	6600	16000	4350	4200	3800
23	16000	5420	5000	4950	5380	7380	21900	6700	17300	6000	4050	4500
24	13600	5410	3420	5580	5600	7600	21500	6400	15500	8000	3800	5800
25	12700	5400	3210	5700	5650	7950	19100	5600	11600	9400	4000	5350
26	12000	5400	3180	5750	5700	7430	18700	5700	13000	4100	3000	5400
27	10200	5590	3980	5380	5600	7470	17600	5600	14600	2600	2650	7600
28	6920	5490	4450	5800	4900	7640	16800	5400	14100	2500	3100	6000
29	7090	5420	4580	5750	---	7640	16900	6000	14500	2300	3950	5400
30	7770	5350	4400	5200	---	8440	14800	5800	14600	3000	4300	5600
31	7730	---	4650	4450	---	9650	---	5200	---	4100	4000	---
TOTAL	274110	246090	143790	161890	159080	209240	400600	255710	281390	185580	128270	134000
MEAN	8842	8203	4638	5222	5681	6750	13350	8249	9380	5986	4138	4467
MAX	16000	15000	5800	5850	6200	9650	21900	13600	17300	15200	5800	7600
MIN	4580	5000	3180	4450	4900	4890	8220	5200	4540	2300	2650	2400

CAL YR 1976 TOTAL 2963690 MEAN 8098 MAX 34000 MIN 3180
WTR YR 1977 TOTAL 2579750 MEAN 7068 MAX 21900 MIN 2300

01030500 MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, Hydrologic Unit 01020003, on right bank at Gordon Lower Falls, 1.0 mi (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--1,418 mi² (3,673 km²).

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.--WSP 1501: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--43 years, 2,472 ft³/s (70.0 m³/s), 23.67 in/yr (601 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft³/s (827 m³/s) Mar. 23, 1936, gage height, 15.34 ft (4.676 m); minimum, 38 ft³/s (1.08 m³/s) Sept. 19, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,600 ft³/s (470 m³/s) Apr. 6, gage height, 10.44 ft (3.182 m), from floodmarks; minimum, 232 ft³/s (6.57 m³/s) Aug. 2, Sept. 6, 7, gage height, 0.49 ft (0.149 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2510	3840	1140	970	635	719	7600	11200	1100	6720	238	338
2	2190	4290	1100	950	630	765	9400	10500	1060	6350	235	305
3	1880	4450	1010	920	620	773	11500	9980	1540	5670	253	279
4	1630	4410	933	900	610	770	14000	8960	2340	4750	271	252
5	1430	4750	1040	880	605	775	15300	8160	3140	3900	286	238
6	1310	5750	1130	860	600	753	15800	7420	4240	3190	301	236
7	1220	6570	1130	845	595	745	15400	6750	5000	2610	301	240
8	1180	6750	1500	835	590	801	14200	6190	5230	2190	301	275
9	1330	6290	1960	820	585	837	12500	5750	5260	1860	295	317
10	2990	5510	2050	830	580	862	11300	5270	5000	1600	285	304
11	5620	4610	1990	890	570	947	10400	4870	4500	1380	303	288
12	7110	3890	1940	960	570	1060	9600	4600	4660	1200	342	261
13	7480	3380	1730	1000	570	1150	9300	4330	5450	1080	353	240
14	7180	2980	1550	980	580	1320	9300	4070	5820	1020	340	262
15	6470	2700	1440	950	590	1630	9700	3810	5550	960	377	386
16	4900	2460	1350	930	605	2010	10000	3520	4980	892	383	778
17	4120	2260	1300	900	615	2710	10500	3220	4290	803	580	1030
18	3530	2120	1230	865	620	3410	11000	3080	4570	736	1150	1020
19	3070	1970	1190	845	620	3680	11700	2940	6050	656	1200	931
20	2720	1840	1160	830	620	3890	12200	2710	7190	594	967	818
21	2980	1670	1130	800	610	3880	12700	2430	8230	542	809	697
22	4660	1570	1200	780	600	3850	13200	2180	10200	481	688	596
23	6060	1490	1250	765	600	3890	13600	1950	11500	425	652	527
24	6670	1420	1220	750	600	3850	13800	1740	11600	358	627	473
25	6590	1340	1180	730	620	3800	14000	1540	10700	334	628	422
26	6220	1190	1150	710	650	3800	14000	1370	9510	334	668	367
27	5750	1210	1110	690	679	3850	13600	1210	8920	307	680	727
28	5190	1280	1080	680	690	4000	13000	1070	8620	283	630	1650
29	4580	1360	1050	670	---	4250	12500	1100	7960	265	551	2140
30	4050	1340	1020	660	---	4800	12000	1210	7240	248	478	2430
31	3700	---	990	650	---	5800	---	1220	---	242	400	---
TOTAL	126320	94690	40253	25845	17059	75377	363100	134370	181450	51980	15572	18827
MEAN	4075	3156	1298	834	609	2432	12100	4335	6048	1677	502	628
MAX	7480	6750	2050	1000	690	5800	15800	11200	11600	6720	1200	2430
MIN	1180	1190	933	650	570	719	7600	1070	1060	242	235	236
CFSM	2.87	2.23	.92	.59	.43	1.72	8.53	3.06	4.27	1.18	.35	.44
IN.	3.31	2.48	1.06	.68	.45	1.98	9.53	3.53	4.76	1.36	.41	.49

CAL YR 1976 TOTAL 1237630 MEAN 3382 MAX 27300 MIN 230 CFSM 2.39 IN 32.47
WTR YR 1977 TOTAL 1144643 MEAN 3137 MAX 15800 MIN 235 CFSM 2.21 IN 30.03

NOTE.--No gage-height record Mar. 24 to May 2.

01031500 PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, Hydrologic Unit 01020004, on left bank 30 ft (9 m) downstream from Lows Bridge, 1.0 mi (1.6 km) upstream from Black Stream, and 4.7 mi (7.6 km) upstream from Dover-Foxcroft.

DRAINAGE AREA.--297 mi² (769 km²).

PERIOD OF RECORD.--August 1902 to current year.

REVISED RECORDS.--WSP 279: 1902. WSP 1171: Drainage area. WSP 1201: 1903-17, 1918-30(M), 1934-35. WSP 1301: 1909(M).

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft (109.15 m) above mean sea level. Prior to July 20, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--75 years, 602 ft³/s (17.05 m³/s), 27.53 in/yr (699 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s (646 m³/s) Nov. 4, 1966, gage height, 17.89 ft (5.453 m); minimum, 5 ft³/s (0.14 m³/s) Aug. 6, 1905, Nov. 22, 1908.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (113 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 21	1930	*7190	204	9.20	2.804	Apr. 22	0100	4340	123	7.02	2.140
Mar. 16	0100	ice jam		*10.67	3.252	Sept. 27	1100	5110	145	7.65	2.332
Apr. 1	0400	4450	126	7.11	2.167						

Minimum discharge, 38 ft³/s (1.08 m³/s) July 30, gage height, 1.83 ft (0.558 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	1060	209	145	125	155	4310	1220	135	615	64	112
2	153	907	165	145	120	160	3380	1120	141	496	77	117
3	120	725	180	140	120	160	2710	1120	165	407	71	138
4	123	813	175	140	120	155	2480	985	205	331	62	124
5	136	1830	160	135	120	155	2110	862	265	257	82	107
6	125	1520	150	135	120	150	1780	791	353	202	219	122
7	120	1290	145	135	115	150	1500	770	397	168	149	130
8	131	1050	1000	135	115	150	1210	672	485	146	100	132
9	372	870	840	135	115	150	1100	579	372	135	77	205
10	1680	730	620	135	115	160	993	534	274	119	64	241
11	988	630	470	140	120	195	848	539	226	105	64	205
12	655	550	375	145	120	250	862	496	282	95	71	165
13	509	500	325	155	120	400	1450	449	372	107	87	143
14	440	460	290	155	125	860	2470	407	295	143	78	465
15	455	420	265	150	125	1700	2440	367	245	143	75	743
16	397	385	240	145	125	2400	2190	335	212	117	77	433
17	357	360	230	145	120	2200	2590	313	178	98	573	304
18	334	356	215	140	120	1850	3120	291	475	100	770	249
19	281	345	205	140	120	1600	3300	261	556	87	344	219
20	249	320	195	140	120	1350	3300	226	556	77	223	178
21	3590	300	205	135	120	1250	3530	202	550	69	428	171
22	4340	275	190	135	120	1100	4150	188	627	64	331	205
23	2180	260	175	135	120	1000	4060	168	550	58	470	175
24	1510	245	165	130	120	930	3280	149	417	50	358	181
25	1290	230	160	130	125	890	2860	135	331	49	539	387
26	1340	213	160	130	130	880	2570	119	1240	50	402	348
27	1100	245	155	130	140	1000	2110	110	1550	52	282	3890
28	891	249	150	125	145	1080	1890	100	1010	47	226	2160
29	761	277	150	125	---	1310	1750	181	685	41	185	2760
30	693	257	150	125	---	1650	1440	216	750	44	152	2480
31	683	---	145	125	---	3140	---	168	---	77	127	---
TOTAL	26190	17672	8259	4260	3420	28580	71783	14073	13899	4549	6827	17289
MEAN	845	589	266	137	122	922	2393	454	463	147	220	576
MAX	4340	1830	1000	155	145	3140	4310	1220	1550	615	770	3890
MIN	120	213	145	125	115	150	848	100	135	41	62	107
CFSM	2.85	1.98	.90	.46	.41	3.10	8.06	1.53	1.56	.50	.74	1.94
IN.	3.28	2.21	1.03	.53	.43	3.58	8.99	1.76	1.74	.57	.86	2.17

CAL YR 1976 TOTAL 311764 MEAN 852 MAX 8340 MIN 83 CFSM 2.87 IN 39.05
WTR YR 1977 TOTAL 216801 MEAN 594 MAX 4340 MIN 41 CFSM 2.00 IN 27.15

01031600 MORRISON BROOK NEAR SEBEC CORNERS, ME

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, Hydrologic Unit 01020004, on left bank 60 ft (18 m) upstream from culvert on State Highway 16, 2.4 mi (3.9 km) east of Sebec Corners, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--4.37 mi² (11.32 km²).

PERIOD OF RECORD.--December 1963 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 408.41 ft (124.483 m) above mean sea level.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years (water years 1965-77), 7.70 ft³/s (0.218 m³/s), 23.93 in/yr (608 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 575 ft³/s (16.3 m³/s) Nov. 3, 1966, gage height, 8.95 ft (2.728 m); minimum, 0.04 ft³/s (0.001 m³/s) Aug. 17, 18, 23, 25, 1975, gage height, 1.70 ft (0.518 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft³/s (1.36 m³/s) Apr. 21, gage height, 3.15 ft (0.960 m), no peak above base of 70 ft³/s (1.98 m³/s); minimum, 0.35 ft³/s (0.010 m³/s) all or part of each day, July 24, 25, gage height, 1.86 ft (0.567 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	7.8	5.4	3.8	2.5	2.8	17	6.3	1.3	4.6	.72	.57
2	2.1	6.6	3.9	3.7	2.3	2.6	17	4.8	2.5	4.0	.90	.71
3	2.1	6.6	4.6	3.7	2.2	2.4	18	4.9	4.3	3.4	.73	.82
4	2.0	8.3	3.7	3.6	2.1	1.8	17	3.8	4.5	2.8	.60	.64
5	1.9	8.8	4.9	3.5	2.0	2.1	17	3.1	4.6	2.5	1.0	.48
6	1.9	8.3	5.8	3.5	2.0	2.0	17	2.9	4.9	2.3	2.1	.63
7	1.9	7.7	8.7	3.5	1.9	1.9	15	2.9	5.3	1.9	1.6	.61
8	1.8	6.8	7.0	3.4	1.9	1.8	15	2.8	5.1	1.7	.98	.55
9	5.0	6.3	5.1	3.4	1.9	1.8	13	2.6	4.0	1.5	.76	.56
10	9.5	5.9	5.0	3.4	1.8	2.2	7.9	2.7	3.0	1.4	.50	.50
11	8.9	6.1	6.4	4.3	1.8	3.0	9.2	3.0	2.8	1.2	.60	.55
12	4.9	5.0	6.2	3.9	1.8	4.9	13	2.8	3.3	1.1	.78	.48
13	4.0	4.6	5.5	3.6	1.8	7.2	16	2.5	3.5	1.3	.84	.47
14	4.6	4.4	5.1	3.4	1.8	16	19	2.3	3.2	1.3	.71	3.7
15	4.4	4.1	4.8	3.2	1.8	14	21	2.1	4.5	1.1	1.1	3.9
16	4.0	3.9	4.5	3.0	1.8	13	23	1.9	3.2	1.0	.79	2.7
17	4.0	3.8	4.3	2.9	1.8	12	24	1.9	3.1	.90	15	1.7
18	3.7	3.7	4.2	2.8	1.8	13	26	1.7	11	.78	8.6	1.5
19	3.4	3.5	4.1	2.7	1.8	14	24	1.5	11	.70	3.5	1.2
20	3.3	3.4	4.0	2.6	1.8	14	28	1.5	10	.68	2.4	.99
21	9.6	3.4	4.8	2.6	1.8	13	32	1.4	13	.57	3.1	1.3
22	8.0	3.3	5.3	2.5	1.8	15	34	1.2	17	.51	2.6	1.6
23	8.2	3.2	5.0	2.5	1.8	13	23	1.1	8.4	.51	2.4	1.1
24	7.9	3.2	4.7	2.4	1.8	13	18	1.0	5.5	.44	2.2	1.2
25	8.4	3.2	4.0	2.4	1.8	15	15	1.1	4.5	.46	2.3	1.4
26	8.0	3.2	3.9	2.4	1.9	15	17	1.2	5.4	.53	1.7	2.5
27	7.2	3.3	4.4	2.4	2.0	17	18	1.5	5.6	.47	1.3	30
28	6.5	3.5	4.4	2.5	2.5	17	16	1.4	4.5	.47	1.1	26
29	5.9	4.0	4.2	2.9	---	16	13	2.4	3.8	.44	.94	17
30	6.4	4.5	4.1	2.9	---	21	9.4	1.8	5.4	.48	.81	8.2
31	7.1	---	3.9	2.7	---	19	---	1.6	---	.75	.62	---
TOTAL	158.8	150.4	151.9	96.1	54.0	306.5	552.5	73.7	168.2	41.79	63.28	113.56
MEAN	5.12	5.01	4.90	3.10	1.93	9.89	18.4	2.38	5.61	1.35	2.04	3.79
MAX	9.6	8.8	8.7	4.3	2.5	21	34	6.3	17	4.6	15	30
MIN	1.8	3.2	3.7	2.4	1.8	1.8	7.9	1.0	1.3	.44	.50	.47
CFSM	1.17	1.15	1.12	.71	.44	2.26	4.21	.55	1.28	.31	.47	.87
IN.	1.35	1.28	1.29	.82	.46	2.61	4.70	.63	1.43	.36	.54	.97

CAL YR 1976 TOTAL 4267.70 MEAN 11.7 MAX 200 MIN 1.0 CFSM 2.68 IN 36.33
WTR YR 1977 TOTAL 1930.73 MEAN 5.29 MAX 34 MIN .44 CFSM 1.21 IN 16.43

PENOBSCOT RIVER BASIN

01033000 SEBEC RIVER AT SEBEC, ME

LOCATION.--Lat 45°16'12", long 69°06'44", Piscataquis County, Hydrologic Unit 01020004, on right bank 1,000 ft (305 m) downstream from highway bridge and dam at outlet of Sebec Lake at Sebec.

DRAINAGE AREA.--327 mi² (847 km²).

PERIOD OF RECORD.--October 1924 to current year.

REVISED RECORDS.--WSP 1171: Drainage area, 1936(M). WSP 1301: 1925.

GAGE.--Water-stage recorder. Datum of gage is 296.3 ft (90.31 m) above mean sea level. Prior to June 22, 1942, at site on opposite bank 60 ft (18 m) downstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Sebec Lake (Reservoirs in Penobscot River basin) and other reservoirs upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 631 ft³/s (17.87 m³/s), 26.20 in/yr (665 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 20, 1936, gage height, 14.46 ft (4.407 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of velocity-area studies; minimum, about 2 ft³/s (0.057 m³/s) Oct. 14-17, 1930, gage height, 0.87 ft (0.265 m), when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft³/s (74.8 m³/s) Apr. 24, gage height, 6.04 ft (1.841 m); minimum daily, 77 ft³/s (2.18 m³/s) Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	631	380	321	585	267	1690	1910	136	1550	245	285
2	590	650	374	316	450	271	1900	1810	142	1430	240	290
3	580	638	374	316	405	267	2040	1740	145	1040	245	290
4	570	669	354	307	400	197	2090	1630	148	497	245	280
5	560	1020	340	307	395	216	2080	1530	151	503	245	280
6	540	1250	330	303	390	209	2060	1430	154	434	245	280
7	491	1240	345	299	385	201	1960	1380	161	401	240	276
8	440	1200	457	299	375	193	1870	1280	168	390	236	267
9	457	1130	547	307	370	186	1800	1080	164	316	236	262
10	669	1020	566	307	365	186	1780	984	161	209	232	262
11	696	947	572	307	360	189	1780	969	164	205	236	262
12	676	890	566	307	355	205	1700	947	168	205	236	262
13	644	835	560	305	350	228	1430	619	158	205	236	262
14	638	782	534	305	345	340	1510	105	148	209	236	262
15	595	743	503	305	335	601	1600	105	148	209	236	480
16	560	702	485	300	335	911	1670	105	145	205	262	1110
17	497	676	474	300	325	1450	1750	110	139	213	290	1070
18	468	553	462	300	325	1550	1860	112	145	249	294	1040
19	193	497	434	300	320	1560	1990	120	154	249	290	1010
20	77	534	412	294	315	1500	2120	125	171	245	290	962
21	112	485	401	290	310	1380	2250	125	193	245	290	897
22	117	457	390	290	305	1260	2410	125	197	245	290	835
23	154	457	374	303	300	1170	2560	125	253	245	290	743
24	232	429	374	294	295	1100	2610	128	285	245	290	644
25	321	406	369	290	290	1080	2610	130	316	245	290	583
26	434	395	359	290	285	1070	2540	130	457	245	290	522
27	516	395	354	290	285	1070	2420	130	702	245	290	572
28	547	390	354	290	280	1100	2310	130	801	245	290	855
29	553	401	340	290	---	1110	2190	136	815	240	280	918
30	553	395	335	285	---	1170	2040	136	1260	240	280	977
31	566	---	330	425	---	1380	---	136	---	245	285	---
TOTAL	14646	20817	13049	9442	9835	23617	60620	19522	8349	11649	8180	17038
MEAN	472	694	421	305	351	762	2021	630	278	376	264	568
MAX	696	1250	572	425	585	1560	2610	1910	1260	1550	294	1110
MIN	77	390	330	285	280	186	1430	105	136	205	232	262
MEAN‡	686	641	380	224	115	1005	2181	537	601	190	209	579
CFSM‡	2.10	1.96	1.16	.68	.35	3.07	6.67	1.64	1.84	.58	.64	1.77
IN.‡	2.42	2.19	1.34	.79	.37	3.54	7.44	1.89	2.05	.67	.74	1.98

CAL YR 1976 TOTAL 317198 MEAN 867 MAX 5210 MIN 77 MEAN‡ 866 CFSM‡ 2.65 IN.‡ 36.08
WTR YR 1977 TOTAL 216764 MEAN 594 MAX 2610 MIN 77 MEAN‡ 612 CFSM‡ 1.87 IN.‡ 25.42

‡ Adjusted for change in contents in Sebec Lake.
NOTE.--No gage-height record Jan. 30 to Mar. 3.

01033500 PLEASANT RIVER NEAR MILO, ME

LOCATION.--Lat 45°16'58", long 69°00'13", Piscataquis County, Hydrologic Unit 01020004, on left bank 2.5 mi (4.0 km) northeast of Milo and 7.9 mi (12.7 km) upstream from mouth.

DR INAGE AREA.--324 mi² (839 km²).

PERIOD OF RECORD.--June 1920 to current year.

REVISED RECORDS.--WSP 1301: 1921-22(M), 1924-27(M), 1929(M). WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 302 ft (92.0 m), from river-profile map. Prior to June 17, 1929, nonrecording gage at Snows Bridge 2.2 mi (3.5 km) downstream at datum 32 ft (9.8 m) lower.

REMARKS.--Records good except those for winter period, which are fair. Flow may be slightly regulated by small storage dams above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--57 years, 708 ft³/s (20.05 m³/s), 29.67 in/yr (754 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft³/s (810 m³/s) Nov. 4, 1966, gage height, 15.46 ft (4.712 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 17, 1944, gage height, 1.21 ft (0.369 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft³/s (105 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 22	0400	4120	117	5.62	1.71	Apr. 1	0500	3750	106	5.26	1.60
Mar. 15	2300	ice jam		*6.94	2.12	Apr. 23	1300	*4990	141	5.91	1.80

Minimum discharge, 90 ft³/s (2.55 m³/s) Sept. 12, gage height, 1.64 ft (0.500 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	1090	370	240	165	215	3660	1480	320	1080	223	136
2	248	1050	345	235	165	245	2900	1380	353	901	209	126
3	224	887	355	225	165	250	2400	1540	481	719	194	120
4	203	964	340	220	160	245	2160	1430	511	591	171	119
5	186	2050	310	215	160	230	1830	1270	562	520	165	107
6	176	1860	290	215	160	220	1600	1220	648	438	172	119
7	173	1500	270	210	160	210	1370	1330	720	381	155	120
8	183	1220	930	205	160	205	1160	1250	756	339	147	114
9	470	1020	820	205	160	205	1030	1090	665	305	131	108
10	2000	856	700	200	160	245	920	986	557	284	114	104
11	1430	771	630	230	160	425	817	1060	506	255	117	101
12	949	689	580	225	160	760	819	998	625	237	138	91
13	698	638	530	220	160	1300	1170	923	800	244	163	94
14	588	591	495	215	165	2200	1820	888	729	252	155	235
15	546	569	570	210	165	2600	1940	796	684	233	176	495
16	494	540	450	205	165	2580	1880	714	552	210	162	426
17	435	515	425	205	165	2370	2190	671	477	191	484	334
18	392	490	405	200	165	1940	2630	702	1200	278	584	276
19	356	475	390	195	160	1630	2830	657	1290	242	377	237
20	333	445	375	190	160	1330	2810	592	1170	206	278	206
21	2280	430	370	190	160	1140	3020	540	1020	179	312	192
22	4050	415	350	185	160	999	4020	492	937	158	284	195
23	2510	399	330	185	160	916	4830	447	825	136	346	186
24	1630	380	320	180	160	836	4090	405	699	123	326	192
25	1310	369	305	180	160	753	3180	366	610	123	406	198
26	1290	348	290	175	165	702	2600	329	1360	146	389	214
27	1120	371	280	175	180	767	2100	290	1790	142	299	2030
28	931	403	270	170	190	954	1910	268	1300	132	239	1600
29	804	438	260	170	---	1140	1990	384	994	120	200	1220
30	728	405	250	170	---	1360	1770	420	1170	112	174	1260
31	733	---	245	165	---	2530	---	369	---	237	148	---
TOTAL	27755	22178	12850	6210	4575	31502	67446	25287	24311	9514	7438	10955
MEAN	895	739	415	200	163	1016	2248	816	810	307	240	365
MAX	4050	2050	930	240	190	2600	4830	1540	1790	1080	584	2030
MIN	173	348	245	165	160	205	817	268	320	112	114	91
CFSM	2.76	2.28	1.28	.62	.50	3.14	6.94	2.52	2.50	.95	.74	1.13
IN.	3.19	2.55	1.48	.71	.53	3.62	7.74	2.90	2.79	1.09	.85	1.26

CAL YR 1976 TOTAL 360407 MEAN 985 MAX 11600 MIN 145 CFSM 3.04 IN 41.38
WTR YR 1977 TOTAL 250021 MEAN 685 MAX 4830 MIN 91 CFSM 2.11 IN 28.71

01034000 PISCATAQUIS RIVER AT MEDFORD, ME

LOCATION.--Lat 45°15'40", long 68°52'07", Piscataquis County, Hydrologic Unit 01020004, on left bank 2.0 mi (3.2 km) southwest of Medford and 3.3 mi (5.3 km) downstream from Pleasant River.

DRAINAGE AREA.--1,161 mi^2 (3,007 km^2).

PERIOD OF RECORD.--June 1924 to current year.

REVISED RECORDS.--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29(M).

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft (75.798 m) above mean sea level. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Flow regulated by Sebec Lake 15 mi (24 km) upstream (Reservoirs in Penobscot River basin) and other small reservoirs and powerplants above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 2,348 ft^3/s (66.50 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,100 ft^3/s (1,700 m^3/s) Nov. 4, 1966, gage height, 15.58 ft (4.749 m); minimum, 99 ft^3/s (2.80 m^3/s) Oct. 28, 1947, gage height, 1.28 ft (0.390 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 20.8 ft (6.34 m) May 1, 1923, former site and datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft^3/s (368 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 16	2100	ice jam		*10.98	3.347	Apr. 23	1600	*13300	377	7.47	2.277
Apr. 1	1900	13100	371	7.42	2.262						

Minimum discharge, 434 ft^3/s (12.3 m^3/s), July 30, gage height, 1.99 ft (0.607 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1290	3650	1240	910	740	800	12400	5370	782	3650	617	650
2	1190	3450	1140	890	1030	890	11800	4860	781	3260	623	637
3	1120	3150	1090	860	1020	840	9920	4900	1050	2750	579	661
4	1050	3450	1210	850	1000	800	9250	4620	1170	1890	569	667
5	1070	6400	1150	830	960	800	8250	4120	1300	1530	556	651
6	1030	5200	1100	820	940	810	7330	3810	1480	1330	756	619
7	966	4250	1050	810	910	800	6420	3810	1680	1140	835	608
8	909	3500	2900	805	880	780	5540	3600	1850	1030	704	617
9	1150	3000	2650	805	850	770	4790	3160	1680	974	596	593
10	4730	2650	2300	800	820	770	4460	2760	1390	814	511	637
11	4490	2400	2100	870	790	890	3970	2830	1230	714	507	695
12	3050	2200	1950	930	770	1200	3830	2730	1260	675	510	645
13	2340	2050	1850	915	760	1900	4750	2510	1640	670	540	601
14	2020	1950	1700	900	740	3300	6940	1880	1590	678	555	832
15	1900	1850	1650	890	725	5400	7860	1560	1630	695	604	1940
16	1770	1750	1550	870	710	8600	7450	1410	1300	688	578	2370
17	1550	1700	1500	860	700	7900	8080	1330	1100	625	1160	2020
18	1450	1650	1450	845	690	6800	9310	1310	1860	666	2530	1790
19	1350	1610	1400	830	680	5900	9920	1260	2580	710	1720	1640
20	1350	1580	1350	820	670	5200	9950	1160	2440	631	1200	1510
21	9000	1430	1300	805	660	4700	10300	1070	2270	598	1160	1410
22	11600	1390	1250	795	660	4350	11900	996	2390	552	1270	1360
23	7800	1270	1200	790	650	4000	13100	926	2160	505	1230	1280
24	5200	1250	1150	780	650	3700	12000	848	1870	485	1300	1170
25	4500	1240	1100	770	650	3500	10300	786	1590	482	1280	1160
26	4100	1160	1100	765	670	3350	9370	734	2150	506	1400	1250
27	3550	1180	1050	760	690	3520	7960	655	4450	486	1140	5890
28	3200	1260	1050	750	730	3920	7130	620	3670	475	961	7130
29	3000	1370	1000	740	---	4560	6950	746	2890	458	850	5150
30	2800	1350	970	730	---	5360	6180	923	3020	443	769	5860
31	2850	---	950	730	---	8380	---	903	---	533	685	---
TOTAL	93375	70340	44450	25525	21745	104490	247410	68197	56253	30643	28295	52043
MEAN	3012	2345	1434	823	777	3371	8247	2200	1875	988	913	1735
MAX	11600	6400	2900	930	1030	8600	13100	5370	4450	3650	2530	7130
MIN	909	1160	950	730	650	770	3830	620	781	443	507	593

CAL YR 1976 TOTAL 1229677 MEAN 3360 MAX 32700 MIN 487
WTR YR 1977 TOTAL 842766 MEAN 2309 MAX 13100 MIN 443

NOTE.--No gage-height record Oct. 17 to Nov. 18.

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME
(National stream-quality accounting network station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, Hydrologic Unit 01020005, on left bank 30 ft (9 m) downstream from highway bridge, 1,000 ft (305 m) downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,670 mi² (17,280 km²), including 249 mi² (645 km²) drained by Chamberlain Lake through Telos Canal.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1901 to current year.

REVISED RECORDS.--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft (38.387 m) above mean sea level. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by many reservoirs above station (Reservoirs in Penobscot River basin).

COOPERATION.--Supplemental water-stage recorder graph furnished by Bangor Hydroelectric Company.

AVERAGE DISCHARGE.--75 years (water years 1903-77), 11,817 ft³/s (335 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s (4,330 m³/s) May 1, 1923, gage height, 25.15 ft (7.666 m), from rating curve extended above 88,000 ft³/s (2,490 m³/s); minimum, 1,630 ft³/s (46.2 m³/s) Oct. 29, 1905, gage height, 1.0 ft (0.30 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53,600 ft³/s (1,520 m³/s) Apr. 24, gage height, 13.15 ft (4.008 m); minimum daily, 3,300 ft³/s (93.5 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10200	15900	8180	8200	7700	6800	35600	36300	8310	26700	5900	5410
2	8960	17700	7700	8800	7800	6800	41000	32900	8060	25700	5710	5820
3	8830	17300	7500	9000	8000	6900	41300	30800	7860	22200	5790	6090
4	8000	16700	7200	8700	8000	7000	40200	29200	9220	17100	5670	5600
5	8410	21400	7200	8300	7900	7000	39600	26900	11300	13600	5380	4260
6	8410	26100	7600	8100	7800	7000	37500	25200	13300	12600	5930	3860
7	8040	27600	8000	8000	7800	7100	35400	24400	14600	11900	5900	5230
8	7660	26500	10000	8000	7800	7100	32800	24000	16000	10600	5800	5370
9	8510	24500	12000	8000	7800	7200	29800	22600	16400	9660	5780	5510
10	18100	22300	12600	8000	7700	7200	27400	20500	16200	9180	5350	5370
11	26400	20100	12000	8100	7700	7500	25100	19700	15100	8420	5210	5380
12	23900	17700	11000	8200	7700	8300	23100	18900	15000	8130	5500	5660
13	20700	16000	10200	8400	7600	9400	23200	17600	16900	7940	5850	5340
14	18800	15000	9200	8700	7600	11000	25800	16700	17200	7910	7710	6040
15	17700	14200	8800	8900	7500	13500	29000	15700	16500	7870	8210	7620
16	19000	12900	8500	8800	7400	17000	30000	14500	16200	7970	5940	9870
17	15200	11500	8400	8600	7200	20000	31100	13300	14500	7850	6820	9050
18	14100	11300	8200	8300	7100	21500	34100	11600	14100	7490	9950	8600
19	14700	10600	8000	8100	7000	23800	37600	12400	19000	7430	9640	7650
20	10500	10300	7900	8100	6800	24000	39900	12100	22000	7090	8180	7230
21	11000	10300	8100	8100	6700	23700	41300	11200	23300	6210	7120	6740
22	27400	9170	8200	8100	6600	22800	43900	10600	26100	5850	7210	6420
23	32300	8400	8200	8100	6600	21600	49100	10200	30600	5790	7020	6330
24	27200	8690	8300	8100	6600	20900	53300	9870	32100	6780	7040	7320
25	24200	8690	8100	8100	6600	20000	52200	9330	28300	10400	5890	7960
26	23100	8670	7200	8000	6600	19500	49700	8370	25500	8660	7120	7510
27	21600	8460	6800	8000	6700	19200	47500	8170	28200	5070	5510	12500
28	18800	8930	7000	8000	6700	19300	44400	7970	29400	3740	4920	19700
29	14800	9320	7400	8000	---	21000	42100	8140	26900	3930	5570	15200
30	15400	9290	7600	7900	---	23600	40400	8540	26300	3300	6150	15600
31	14700	---	7900	7800	---	28000	---	8790	---	4260	6520	---
TOTAL	506620	445520	264980	255500	205000	465700	1123400	526480	564450	301330	200290	230240
MEAN	16340	14850	8548	8242	7321	15020	37450	16980	18820	9720	6461	7675
MAX	32300	27600	12600	9000	8000	28000	53300	36300	32100	26700	9950	19700
MIN	7660	8400	6800	7800	6600	6800	23100	7970	7860	3300	4920	3860

CAL YR 1976 TOTAL 6365970 MEAN 17390 MAX 107000 MIN 4570
WTR YR 1977 TOTAL 5089510 MEAN 13940 MAX 53300 MIN 3300

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1973 to current year.
WATER TEMPERATURES: July 1966 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1973.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 187 micromhos Sept. 25, 1976; minimum, 30 micromhos June 9, 10, 1975.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 2, 3, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 114 micromhos Dec. 7; minimum, 35 micromhos June 8.
WATER TEMPERATURES: Maximum, 27.0°C July 21; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM .7UM-MF (COL./ 100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
NOV												
04...	1200	16400	54	6.6	4.5	--	12.2	94	120	812	--	--
DEC												
14...	1200	9200	70	6.6	.0	1	--	--	72	21	20	6
JAN												
28...	1130	8000	70	6.5	.0	--	12.0	82	220	120	--	--
FEB												
17...	1100	7200	70	6.4	.0	4	12.0	82	120	>1000	18	5
MAR												
31...	1045	27600	60	6.6	1.0	--	13.0	92	37	14	--	--
MAY												
25...	1200	8970	50	6.2	21.0	2	8.4	93	100	85	17	4
JUN												
02...	1100	8000	--	--	--	--	--	--	--	--	--	--
22...	1130	26000	42	6.5	14.0	--	9.4	90	60	340	--	--
JUL												
20...	1100	7470	56	6.7	25.0	1	7.4	88	40	370	18	6
20...	1400*	7470	--	--	--	1	--	--	--	--	17	7
AUG												
03...	1445	5934	56	6.9	23.0	--	7.8	90	150	960	--	--
24...	1015	7290	58	6.8	18.0	2	7.4	78	110	190	21	8
SEP												
20...	1130	7340	66	6.8	14.5	--	8.9	86	--	120	--	--

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV												
04...	--	--	--	--	--	.4	--	--	--	--	--	--
DEC												
14...	6.0	1.1	3.5	27	.3	.5	17	0	14	6.8	6.5	3.0
JAN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	5.3	1.1	2.4	22	.2	.4	16	0	13	10	6.8	3.2
MAR												
31...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	5.0	1.1	1.8	18	.2	.6	16	0	13	16	6.4	1.6
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	5.2	1.2	3.1	27	.3	.6	15	0	12	4.8	7.4	2.8
20...	4.9	1.2	2.6	24	.3	.6	13	--	11	--	6.8	2.2
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
24...	6.1	1.3	3.0	23	.3	.8	15	0	12	3.8	6.9	3.0
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

* Sample collected by Equal Width Increment method.

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)
NOV												
04...	--	--	--	--	--	.05	.30	.35	1.6	.04	--	--
DEC												
14...	.1	4.5	49	34	1220	.12	.25	.37	1.6	.03	1	0
JAN												
28...	--	--	--	--	--	.11	1.5	1.6	7.1	.05	--	--
FEB												
17...	.1	4.1	45	31	875	.13	.30	.43	1.9	.04	0	0
MAR												
31...	--	--	--	--	--	.12	.30	.42	1.9	.04	--	--
MAY												
25...	.0	2.3	44	27	1070	.02	.20	.22	.97	.01	1	1
JUN												
22...	--	--	--	--	--	.04	.47	.51	2.3	.02	--	--
JUL												
20...	.0	2.8	45	31	908	.04	.43	.47	2.1	.03	1	--
20...	.0	2.9	45	28	908	.04	.44	.48	2.1	.16	1	1
AUG												
03...	--	--	--	--	--	.04	.50	.54	2.4	.03	--	--
24...	.1	3.1	50	32	984	.08	.29	.37	1.6	.03	1	1
SEP												
20...	--	--	--	--	--	.03	.31	.34	1.5	.03	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	1	1	0	1	<10	0	<10	0	0	0	0	0
JAN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	0	0	0	0	<10	0	<10	0	0	0	0	0
MAR												
31...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	0	0	0	0	10	0	13	0	0	0	4	4
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	0	0	--	0	10	--	2	0	--	0	3	--
20...	0	0	0	0	<10	<10	0	0	0	0	85	70
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
24...	0	0	0	0	<10	<8	2	0	0	0	4	4
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	0	160	110	8	1	7	20	0	30	<.5	.0
JAN											
28...	--	--	--	--	--	--	--	--	--	--	--
FEB											
17...	0	150	100	16	15	1	20	0	20	<.5	.0
MAR											
31...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	0	200	90	31	25	6	30	10	20	.0	.0
JUL											
20...	2	210	130	15	--	12	40	--	20	.0	--
20...	15	240	80	62	40	22	30	10	20	.0	.0
AUG											
03...	--	--	--	--	--	--	--	--	--	--	--
24...	0	320	70	23	13	10	40	10	30	.0	.0
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV										
04...	--	--	--	--	--	--	--	--	4	177
DEC										
14...	<.5	0	0	0	10	0	40	13	12	298
JAN										
28...	--	--	--	--	--	--	--	--	44	950
FEB										
17...	<.5	0	0	0	10	10	0	11	2	39
MAR										
31...	--	--	--	--	--	--	--	--	10	745
MAY										
25...	.0	0	0	0	40	40	0	5.5	11	266
JUL										
20...	.0	0	--	0	30	--	0	5.2	--	--
20...	.0	0	0	0	40	20	20	5.3	4	81
AUG										
03...	--	--	--	--	--	--	--	--	13	208
24...	.0	0	0	0	30	30	0	5.4	5	98
SEP										
20...	--	--	--	--	--	--	--	--	4	79

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
NOV										
04...	<.6	<.4	1.7	<.4	1.4	<.4	.01	.05	48	2
JUN										
02...	<.7	<.4	3.9	.5	3.1	.5	.06	.06	53	4

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M) DRY WEIGHT	BIOMASS(G/SQ M) ASH WEIGHT	CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
SEP 20	33	236	78.7	0.003	0.001	52500	ARTIFICIAL SUBSTRATE

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1976 TO JUNE 1977

DATE TIME	NOV 4,76 1200	DEC 14,76 1200	JAN 28,77 1130	FEB 17,77 1100	JUN 22,77 1130
TOTAL CELLS/ML	650	420	1700	600	1000
DIVERSITY: DIVISION	0.2	0.3	0.2	0.1	1.2
.CLASS	0.2	0.9	0.2	0.1	1.2
..ORDER	0.2	1.7	0.5	0.8	1.4
...FAMILY	0.3	3.0	0.6	0.8	1.7
....GENUS	0.3	3.1	1.4	1.6	1.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	14	1	--	-	24	2
....OOCYSTIS	--	-	--	-	--	-	--	-	*	0
....TETRAEDRON	--	-	--	-	--	-	--	-	7	1
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	6	2	--	-	--	-	21	2
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	14	1
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	6	2	--	-	--	-	--	-
....MELOSIRA	--	-	6	2	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	10	1
...RHIZOSOLENIACEAE										
....RHIZOSOLENIA	--	-	120#	30	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	51	12	10	1	--	-	14	1
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	--	-	*	0
...DIATOMACEAE										
....DIATOMA	--	-	3	1	--	-	--	-	*	0
...EUNOTIACEAE										
....EUNOTIA	--	-	--	-	--	-	--	-	*	0
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	38	9	*	0	--	-	*	0
....FRAGILARIA	11	2	--	-	--	-	--	-	84	8
....HANNAEA	--	-	--	-	--	-	--	-	*	0
....SYNEDRA	--	-	10	2	10	1	4	1	*	0
...GOMPHONEMATACEAE										
....GOMPHONEMA	5	1	6	2	*	0	--	-	*	0
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	--	-	*	0
...NAVICULACEAE										
....NAVICULA	--	-	32	8	--	-	*	0	*	0
....PINNULARIA	--	-	--	-	--	-	--	-	*	0
...NITZSCHIACEAE										
....NITZSCHIA	5	1	44	11	--	-	--	-	14	1
...TABELLARIACEAE										
....TABELLARIA	--	-	10	2	--	-	--	-	17	2
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	67#	16	--	-	--	-	17	2
....OCHROMONAS	--	-	--	-	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	--	-	--	-	100	6	140#	24	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	430#	26	240#	39	770#	74
....OSCILLATORIA	630#	97	--	-	1100#	65	210#	36	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	10	2	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	3	1	--	-	--	-	31	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, JULY 1977 TO SEPTEMBER 1977--Continued

DATE	JUL 20.77		JUL 20.77		AUG 3.77		AUG 24.77		SEP 20.77	
TIME	1100		1400		1445		1015		1130	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	1400#	44	6500#	59	9300#	62	73#	26	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	200	6	--	-	--	-	--	-	340	2
....OSCILLATORIA	--	-	--	-	--	-	--	-	460	3
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....GOMPHOSPHAERIA	--	-	300	3	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	50	2	--	-	--	-	--	-	130	1
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	30	1	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

PHYTOPLANKTON ANALYSES, JULY 1977 TO SEPTEMBER 1977

DATE TIME	JUL 20.77 1100	JUL 20.77 1400	AUG 3.77 1445	AUG 24.77 1015	SEP 20.77 1130
TOTAL CELLS/ML	3300	11000	15000	280	14000
DIVERSITY: DIVISION	1.6	1.2	1.3	1.5	1.1
.CLASS	1.6	1.2	1.4	1.5	1.1
..ORDER	2.2	1.6	1.7	2.0	1.3
...FAMILY	2.7	1.9	1.9	2.9	1.7
....GENUS	2.9	2.2	2.1	2.9	1.8

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	20	1	*	0	160	1	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	79	2	100	1	--	-	--	-	340	2
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	20	7	1700	12
...OOCYSTACEAE										
....ANKISTRODESMUS	450	14	810	7	1100	7	7	2	170	1
....DICTYOSPHAERIUM	50	2	730	7	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	*	0	530	4	--	-	--	-
....OOCYSTIS	50	2	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	340	2
....CRUCIGENIA	200	6	100	1	110	1	--	-	--	-
....SCENEDESMUS	120	4	280	3	320	2	86#	30	340	2
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	40	1	--	-	--	-	--	-	--	-
...PALMELLACEAE										
....GLOEOCYSTIS	69	2	1500	14	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	530	4	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	50	2	76	1	110	1	7	2	*	0
..ZYGNEMATALES										
...DESMIDIACEAE										
....ARTHRODESMUS	--	-	--	-	--	-	--	-	*	0
....CLOSTERIUM	--	-	--	-	--	-	7	2	--	-
....COSMARIUM	--	-	--	-	--	-	13	5	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...CHAETOCERACEAE										
....ATTHEYA	--	-	--	-	*	0	--	-	--	-
...COSCINODISCACEAE										
....CYCLOTELLA	*	0	130	1	*	0	7	2	--	-
....MELOSIRA	20	1	--	-	2000	13	--	-	10000#	70
....STEPHANODISCUS	--	-	--	-	*	0	--	-	*	0
...RHIZOSOLENIACEAE										
....RHIZOSOLENIA	--	-	*	0	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	*	0	--	-	*	0	--	-	84	1
....COCCONEIS	--	-	--	-	*	0	7	2	*	0
....RHOICOSPHENIA	--	-	--	-	*	0	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	13	5	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	360	11	180	2	190	1	--	-	170	1
....SYNEDRA	30	1	*	0	110	1	33	12	84	1
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	7	2	--	-
...NAVICULACEAE										
....NAVICULA	*	0	*	0	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	--	-	76	1	*	0	7	2	--	-
...TABELLARIACEAE										
....TABELLARIA	*	0	*	0	160	1	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...MALLOMONADACEAE										
....MALLOMONAS	20	1	--	-	*	0	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	80	1	--	-	*	0
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	65	62	64	69	57	59	65	60	63	67	64	65
2	69	65	67	58	54	56	71	65	68	69	66	68
3	69	65	67	58	56	57	73	69	71	68	64	65
4	67	64	65	59	57	58	80	74	78	69	64	67
5	67	61	64	64	58	60	85	80	83	67	64	66
6	66	60	64	59	53	55	92	85	89	67	64	66
7	67	65	66	54	53	53	114	92	102	70	66	68
8	66	63	65	53	52	53	108	61	96	70	65	68
9	82	63	70	53	50	51	59	54	55	68	65	66
10	67	55	60	53	50	52	59	55	57	69	66	68
11	59	53	56	55	52	53	62	57	59	69	66	67
12	57	55	56	55	52	53	64	57	61	69	66	67
13	57	54	56	56	52	54	67	63	65	69	66	67
14	61	57	59	58	55	56	74	64	68	67	66	66
15	60	56	58	66	58	63	80	75	78	68	67	67
16	59	56	57	66	59	63	85	79	82	70	68	70
17	61	57	59	59	56	57	89	86	88	68	66	67
18	63	57	59	61	56	59	90	87	89	67	65	66
19	59	56	57	63	59	60	88	86	87	69	66	68
20	65	58	61	63	57	60	92	88	89	72	69	71
21	81	63	69	59	56	57	98	88	93	73	69	71
22	64	55	61	61	56	59	89	88	89	71	70	70
23	54	50	51	66	61	64	92	89	91	72	69	70
24	53	50	52	68	66	67	92	77	83	71	69	70
25	57	52	55	67	63	66	88	77	84	73	70	72
26	58	55	56	65	62	63	90	88	89	73	71	72
27	55	54	55	66	64	65	88	70	79	72	69	71
28	56	54	55	67	65	66	69	65	67	70	58	64
29	65	56	61	70	67	69	69	65	67	73	67	69
30	59	54	57	68	59	62	70	67	69	69	67	68
31	71	60	67	---	---	---	67	64	65	69	68	68
MONTH	82	50	60	70	50	59	114	54	78	73	58	68

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	69	68	68	67	64	65	53	52	52	---	---	---
2	71	68	69	67	64	65	53	50	52	---	---	---
3	71	70	71	69	65	67	53	48	50	---	---	---
4	73	70	71	71	66	69	51	50	51	---	---	---
5	73	68	70	70	65	68	52	50	51	---	---	---
6	70	68	69	68	64	66	52	51	52	---	---	---
7	72	69	70	71	68	70	51	50	50	---	---	---
8	73	70	71	71	68	69	51	50	50	---	---	---
9	72	69	70	76	68	72	51	49	50	---	---	---
10	76	71	72	81	75	77	53	50	51	---	---	---
11	73	70	71	85	77	81	53	50	52	---	---	---
12	76	72	74	83	81	82	57	52	54	---	---	---
13	73	71	72	82	79	80	56	54	55	---	---	---
14	71	70	71	82	70	79	55	52	53	---	---	---
15	73	69	71	68	64	65	54	51	52	---	---	---
16	70	68	69	66	62	65	54	51	52	---	---	---
17	70	57	64	65	59	62	54	51	52	---	---	---
18	60	58	59	62	55	59	53	50	51	---	---	---
19	62	57	59	66	58	60	52	48	50	---	---	---
20	65	59	62	60	56	58	50	47	48	---	---	---
21	65	62	64	60	56	58	50	46	48	---	---	---
22	63	61	62	61	56	59	49	47	48	---	---	---
23	66	62	64	59	57	59	47	45	46	---	---	---
24	63	60	62	59	59	59	45	43	44	---	---	---
25	61	60	60	59	57	58	48	43	45	---	---	---
26	66	61	63	59	58	58	45	43	44	---	---	---
27	66	62	64	61	58	59	43	42	42	---	---	---
28	67	64	65	61	58	59	---	---	---	---	---	---
29	---	---	---	60	57	59	---	---	---	---	---	---
30	---	---	---	64	58	60	---	---	---	---	---	---
31	---	---	---	59	53	60	---	---	---	---	---	---
MONTH	76	57	67	85	53	65	57	42	50	---	---	---

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	53	51	52	55	51	53	58	55	57
2	---	---	---	54	53	53	55	53	55	62	58	60
3	---	---	---	54	51	53	57	55	56	62	57	60
4	---	---	---	55	52	54	58	55	56	59	57	58
5	---	---	---	67	55	59	64	56	58	64	58	61
6	38	37	38	59	54	56	61	58	59	66	54	56
7	39	36	38	58	55	56	61	57	59	62	56	58
8	46	35	39	59	56	57	60	57	58	58	52	56
9	51	42	48	59	58	59	58	56	57	59	51	56
10	50	48	49	60	58	59	58	56	57	59	53	56
11	52	48	51	60	56	59	61	58	59	58	52	56
12	53	51	52	61	56	59	62	58	60	58	53	56
13	54	52	52	60	57	58	61	58	61	62	56	59
14	53	46	50	60	58	59	64	58	60	63	55	61
15	53	50	52	58	56	57	61	59	60	63	56	61
16	50	46	48	59	53	57	64	58	61	65	56	62
17	50	46	47	57	50	55	69	64	66	65	58	62
18	51	49	50	---	---	---	66	59	63	66	57	63
19	49	48	49	---	---	---	63	58	60	66	58	64
20	49	46	48	---	---	---	61	58	60	67	63	65
21	49	47	48	53	46	49	62	56	59	65	63	64
22	48	45	47	46	44	45	61	56	59	65	62	64
23	47	44	45	49	48	49	61	57	59	65	64	64
24	48	46	47	52	51	51	59	52	57	65	63	64
25	50	47	48	56	52	54	59	55	58	62	57	60
26	52	49	50	57	52	54	61	54	57	60	56	57
27	53	51	51	---	---	---	61	55	58	63	56	59
28	53	50	51	---	---	---	74	60	65	58	57	57
29	53	50	52	---	---	---	70	62	64	60	57	59
30	53	50	52	---	---	---	69	56	60	61	58	60
31	---	---	---	---	---	---	58	54	55	---	---	---
MONTH	54	35	48	67	44	55	74	51	59	67	51	60
YEAR	114	35	61									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.0	12.0	12.5	5.0	4.5	5.0	0.5	0.0	0.0	4.0	3.5	3.5
2	13.0	12.0	12.5	4.5	4.0	4.0	0.5	0.0	0.0	4.0	1.0	2.5
3	13.5	12.0	13.0	4.0	3.5	4.0	0.0	0.0	0.0	1.0	1.0	1.0
4	13.5	12.5	13.0	4.5	4.0	4.0	0.0	0.0	0.0	1.0	1.0	1.0
5	13.5	12.0	13.0	4.5	4.0	4.5	0.0	0.0	0.0	1.0	0.5	1.0
6	13.5	12.5	13.0	4.5	4.5	4.5	0.0	0.0	0.0	1.0	0.5	1.0
7	14.5	13.5	14.0	5.0	4.5	4.5	0.5	0.0	0.5	1.0	0.5	0.5
8	14.5	13.5	14.0	4.5	4.0	4.0	0.5	0.0	0.0	0.5	0.5	0.5
9	13.5	12.5	12.5	3.5	2.5	3.0	0.0	0.0	0.0	0.5	0.5	0.5
10	13.0	11.5	12.5	2.5	2.0	2.5	0.0	0.0	0.0	0.5	0.5	0.5
11	11.5	10.0	10.5	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.5
12	10.0	9.0	9.5	1.5	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.0
13	9.0	9.0	9.0	1.5	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5
14	9.5	8.5	9.0	1.5	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5
15	8.5	8.0	8.5	2.0	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.5
16	9.5	8.5	9.0	2.0	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.5
17	8.5	8.0	8.5	2.0	1.0	1.5	0.5	0.5	0.5	0.5	0.0	0.5
18	8.5	7.5	8.0	2.5	1.5	2.0	0.5	0.5	0.5	0.5	0.0	0.5
19	7.5	7.0	7.5	2.0	2.0	2.0	0.5	0.5	0.5	0.5	0.0	0.0
20	7.5	7.0	7.0	2.0	1.0	1.5	2.0	0.5	1.0	0.5	0.0	0.5
21	8.0	7.5	8.0	1.0	0.5	0.5	2.5	2.0	2.0	0.5	0.5	0.5
22	7.5	6.5	7.0	1.0	0.0	0.5	2.0	1.5	2.0	0.5	0.0	0.5
23	6.5	6.0	6.5	1.0	0.5	0.5	2.5	2.0	2.5	0.5	0.5	0.5
24	6.0	5.5	5.5	0.5	0.5	0.5	2.5	2.0	2.5	0.5	0.5	0.5
25	5.5	5.5	5.5	1.0	0.5	0.5	2.5	2.0	2.5	0.5	0.5	0.5
26	5.5	4.5	5.0	0.5	0.5	0.5	3.0	2.5	2.5	1.0	0.5	0.5
27	4.5	4.0	4.0	1.5	0.5	1.0	3.0	2.5	3.0	0.5	0.5	0.5
28	4.0	3.5	4.0	2.0	1.5	1.5	3.0	2.5	2.5	1.0	0.5	0.5
29	4.0	3.5	4.0	1.5	1.0	1.5	4.0	3.0	3.5	1.0	0.0	0.5
30	4.5	3.5	4.0	0.5	0.0	0.5	3.5	3.5	3.5	0.5	0.0	0.0
31	4.5	4.0	4.5	---	---	---	3.5	3.5	3.5	0.0	0.0	0.0
MONTH	14.5	3.5	9.0	5.0	0.0	2.0	4.0	0.0	1.0	4.0	0.0	0.5

01034500 PENOBSCOT RIVER AT WEST ENFIELD, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	0.5	0.0	0.5	2.0	1.0	1.5	---	---	---
2	0.5	0.0	0.0	0.5	0.0	0.5	1.5	0.5	1.0	---	---	---
3	0.5	0.0	0.5	0.5	0.0	0.5	1.5	1.0	1.0	---	---	---
4	0.5	0.0	0.5	0.5	0.0	0.5	1.5	0.0	1.0	---	---	---
5	0.5	0.0	0.0	0.5	0.5	0.5	1.5	0.5	1.0	---	---	---
6	0.5	0.0	0.0	0.5	0.5	0.5	1.5	0.5	1.0	---	---	---
7	0.5	0.0	0.0	0.5	0.5	0.5	1.5	0.5	1.0	---	---	---
8	0.5	0.0	0.5	0.5	0.0	0.5	1.0	0.5	0.5	---	---	---
9	0.5	0.0	0.0	0.5	0.0	0.5	1.5	0.0	0.5	---	---	---
10	0.5	0.0	0.5	1.0	0.5	0.5	1.5	0.5	1.0	---	---	---
11	0.5	0.0	0.5	1.0	0.5	0.5	2.0	0.5	1.5	---	---	---
12	0.5	0.5	0.5	0.5	0.5	0.5	3.5	2.0	2.5	---	---	---
13	0.5	0.5	0.5	0.5	0.5	0.5	4.0	3.0	3.5	---	---	---
14	0.5	0.0	0.5	0.5	0.5	0.5	4.0	3.5	4.0	---	---	---
15	0.5	0.0	0.5	0.5	0.5	0.5	4.0	3.0	3.5	---	---	---
16	0.5	0.0	0.0	0.5	0.5	0.5	4.5	3.5	4.0	---	---	---
17	0.5	0.0	0.0	0.5	0.5	0.5	5.5	4.0	5.0	---	---	---
18	0.5	0.0	0.0	0.5	0.0	0.5	6.0	4.5	5.5	---	---	---
19	0.5	0.0	0.0	0.5	0.5	0.5	6.0	5.0	5.5	---	---	---
20	0.5	0.0	0.5	1.0	0.0	0.5	6.5	5.0	5.5	---	---	---
21	0.5	0.0	0.5	1.0	0.5	0.5	7.0	5.5	6.0	---	---	---
22	0.0	0.0	0.0	1.0	0.5	0.5	7.0	6.0	6.5	---	---	---
23	0.5	0.0	0.0	0.5	0.5	0.5	6.5	6.0	6.5	---	---	---
24	0.5	0.0	0.0	0.5	0.5	0.5	6.0	5.5	5.5	---	---	---
25	0.5	0.5	0.5	0.5	0.5	0.5	5.5	4.5	5.0	---	---	---
26	1.0	0.5	0.5	1.0	0.5	0.5	5.0	4.5	4.5	20.0	13.5	18.5
27	0.5	0.0	0.5	1.5	0.5	1.0	5.5	4.5	5.0	19.0	17.5	18.0
28	0.5	0.5	0.5	2.0	0.5	1.5	---	---	---	17.0	12.5	16.0
29	---	---	---	1.5	1.0	1.5	---	---	---	16.5	14.5	15.5
30	---	---	---	3.0	1.5	2.0	---	---	---	17.5	16.0	16.5
31	---	---	---	2.5	1.5	2.0	---	---	---	18.5	16.0	17.5
MONTH	1.0	0.0	0.5	3.0	0.0	0.5	7.0	0.0	3.5	20.0	12.5	17.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	17.0	18.0	19.0	18.5	18.5	22.5	21.0	21.5	21.5	20.0	20.5
2	18.0	15.5	17.0	19.5	18.0	19.0	23.0	22.0	22.5	21.5	21.0	21.0
3	16.0	14.0	15.5	19.5	18.5	19.0	23.5	22.0	22.5	21.5	20.5	21.0
4	15.5	15.0	15.5	19.5	19.0	19.0	24.0	22.0	23.0	21.0	20.0	20.5
5	15.0	15.0	15.0	20.0	19.0	19.5	24.0	22.5	23.5	21.0	19.0	20.0
6	14.5	14.0	14.5	20.0	19.0	19.5	24.0	23.0	23.5	20.5	18.5	19.5
7	14.0	13.5	13.5	20.5	18.5	19.5	23.5	22.0	23.0	20.0	18.0	19.0
8	13.5	13.0	13.5	21.0	19.5	20.0	24.0	23.0	23.5	19.5	18.0	18.5
9	14.0	13.0	13.5	20.5	19.5	20.0	24.0	22.5	23.5	19.0	18.0	18.0
10	14.0	13.5	14.0	22.0	19.5	20.5	23.0	22.0	22.0	18.0	17.0	17.5
11	14.0	13.5	13.5	22.0	20.0	21.0	22.0	21.0	21.0	17.5	17.0	17.5
12	14.5	14.0	14.0	21.5	20.0	20.5	21.0	20.5	20.5	17.5	17.0	17.0
13	15.5	14.0	15.0	20.5	20.0	20.5	21.5	20.5	21.0	17.0	16.0	16.5
14	15.5	14.5	15.0	22.5	20.0	21.0	21.5	21.0	21.5	16.0	15.0	15.5
15	16.5	15.5	16.0	23.0	20.5	22.0	21.5	20.5	21.0	15.0	14.0	14.5
16	17.5	16.0	16.5	24.5	22.0	23.0	21.0	20.5	20.5	15.5	14.5	15.0
17	17.0	16.0	16.5	25.0	22.5	24.0	21.0	20.0	20.0	15.0	14.5	15.0
18	16.0	15.5	15.5	---	---	---	20.5	18.5	19.5	15.0	14.5	15.0
19	15.5	14.5	15.0	---	---	---	20.5	18.0	19.5	16.0	15.0	15.5
20	14.5	14.0	14.5	---	---	---	20.5	19.0	19.5	15.5	13.5	14.5
21	14.0	13.5	14.0	27.0	25.5	26.0	20.0	18.5	19.5	13.5	12.5	12.5
22	13.5	13.5	13.5	25.5	23.0	24.5	19.5	18.5	18.5	13.5	12.0	12.5
23	14.0	13.0	13.5	23.0	21.5	22.5	18.5	17.5	18.0	14.5	13.0	13.5
24	15.0	13.5	14.0	23.5	22.0	23.0	18.5	18.0	18.0	14.5	13.5	14.0
25	16.0	15.0	15.5	23.0	21.5	22.0	18.0	17.0	17.5	13.5	13.0	13.0
26	16.0	15.5	15.5	21.5	20.5	21.0	19.0	17.0	18.0	13.5	12.5	13.0
27	17.0	15.5	16.5	---	---	---	19.5	17.5	18.5	14.0	13.0	13.5
28	18.0	16.0	17.0	---	---	---	21.5	19.5	20.5	14.0	13.5	14.0
29	18.0	17.5	17.5	---	---	---	23.5	21.5	22.0	14.0	13.0	13.5
30	19.0	18.0	18.5	---	---	---	23.0	22.0	22.0	13.0	12.5	12.5
31	---	---	---	---	---	---	22.0	20.5	21.0	---	---	---
MONTH	19.0	13.0	15.0	27.0	18.0	21.0	24.0	17.0	21.0	21.5	12.0	16.0
YEAR	27.0	0.0	8.0									

01035000 PASSADUMKEAG RIVER AT LOWELL, ME

LOCATION.--Lat 45°11'04", long 68°28'29", Penobscot County, Hydrologic Unit 01020005, on right bank at Lowell, 0.5 mi (0.8 km) downstream from dam and highway bridge, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--299 mi² (774 km²).

PERIOD OF RECORD.--October 1915 to current year.

REVISED RECORDS.--WSP 821: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft (46.12 m) above mean sea level. Oct. 1, 1915, to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917, to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft (122 m) downstream from highway bridge at different datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--62 years, 503 ft³/s (14.24 m³/s), 22.85 in/yr (580 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,680 ft³/s (161 m³/s) May 2, 1923, gage height, 9.40 ft (2.865 m); minimum, about 5 ft³/s (0.14 m³/s) several times in July and August 1921 (gates in dam closed).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) Apr. 5, gage height, 4.77 ft (1.454 m); maximum gage height, 5.53 ft (1.686 m) Jan. 1 (backwater from ice); minimum discharge, 124 ft³/s (3.51 m³/s) Sept. 13, gage height, 1.05 ft (0.320 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	480	250	295	272	232	1540	1570	405	1030	183	151
2	286	496	235	290	270	240	1650	1490	467	991	180	156
3	270	502	220	290	265	240	1740	1410	697	940	180	178
4	254	521	205	285	260	232	1850	1330	1010	873	170	201
5	240	592	220	285	255	226	1880	1240	1240	793	168	209
6	229	634	225	280	250	222	1890	1170	1380	708	170	209
7	220	670	230	280	248	220	1860	1090	1470	627	166	199
8	215	678	280	275	244	220	1790	1030	1510	556	158	186
9	231	654	410	275	240	230	1700	968	1500	502	151	168
10	365	615	645	295	235	240	1600	930	1440	460	146	156
11	518	562	600	330	233	270	1500	932	1390	423	146	142
12	603	508	480	360	230	295	1400	923	1390	395	146	135
13	616	457	425	385	228	360	1360	914	1350	388	146	128
14	588	419	380	390	228	435	1400	891	1280	385	149	176
15	537	392	350	380	230	520	1450	860	1210	381	170	256
16	485	372	325	370	240	650	1480	811	1140	368	178	337
17	431	356	315	360	245	760	1520	755	1070	351	250	360
18	384	345	305	355	245	850	1570	710	1050	330	353	344
19	347	336	295	350	244	900	1620	661	1040	309	432	308
20	322	326	290	345	242	940	1650	618	1040	291	455	271
21	440	322	295	340	240	965	1680	582	1160	274	425	239
22	627	308	315	330	238	958	1730	544	1270	259	374	214
23	737	301	330	325	235	961	1780	510	1320	240	334	199
24	773	292	325	320	232	948	1800	476	1320	225	301	188
25	766	229	320	315	230	906	1840	445	1300	219	277	180
26	731	282	315	305	225	863	1860	418	1250	222	253	173
27	673	279	310	300	222	855	1830	384	1200	217	231	330
28	608	176	305	292	225	882	1780	362	1130	212	209	487
29	549	266	300	288	---	948	1720	379	1050	202	193	620
30	498	275	300	280	---	1050	1650	404	1050	192	180	690
31	468	---	295	275	---	1270	---	416	---	188	166	---
TOTAL	14309	12645	10095	9845	6751	18888	50120	25223	35129	13551	7040	7590
MEAN	462	422	326	318	241	609	1671	814	1171	437	227	253
MAX	773	678	645	390	272	1270	1890	1570	1510	1030	455	690
MIN	215	176	205	275	222	220	1360	362	405	188	146	128
CFSM	1.55	1.41	1.09	1.06	.81	2.04	5.59	2.72	3.92	1.46	.76	.85
IN.	1.78	1.57	1.26	1.22	.84	2.35	6.24	3.14	4.37	1.69	.88	.94

CAL YR 1976 TOTAL 245520 MEAN 671 MAX 3640 MIN 176 CFSM 2.24 IN 30.55
WTR YR 1977 TOTAL 211186 MEAN 579 MAX 1890 MIN 128 CFSM 1.94 IN 26.27

01036500 KENDUSKEAG STREAM NEAR KENDUSKEAG, ME

LOCATION.--Lat 44°53'48", long 68°53'04", Penobscot County, Hydrologic Unit 01020005, on right bank 300 ft (91 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Black Stream, and 2.9 mi (4.7 km) south of Kenduskeag.

DRAINAGE AREA.--178 mi^2 (461 km^2).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.94 ft (28.023 m) above mean sea level.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 mi (2.9 km) above station. During high stages of Souadabscook Stream, part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream, all flow continues down its own channel. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 324 ft^3/s (9.176 m^3/s), 24.72 in/yr (628 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft^3/s (181 m^3/s) Sept. 12, 1954, gage height, 14.83 ft (4.520 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Sept. 30, 1948, Aug. 8, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft^3/s (45.3 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 22	0700	1980	56.1	6.75	2.057	Apr. 1	2100	3320	94.0	9.26	2.822
Mar. 16	1700	*5120	145	*12.27	3.740	Apr. 14	2400	1720	48.7	6.23	1.899

Minimum daily discharge, 9.4 ft^3/s (0.266 m^3/s) July 30, Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	469	130	124	86	90	3190	419	50	293	11	29
2	43	473	115	119	82	115	2910	357	67	166	13	26
3	38	355	110	113	80	128	2410	332	204	105	12	29
4	35	393	110	109	78	126	2380	295	278	81	11	26
5	32	1090	102	106	76	120	2140	253	369	62	10	23
6	30	980	97	104	75	116	1790	227	413	51	12	22
7	29	736	135	101	74	113	1630	226	416	42	12	20
8	29	561	1050	99	73	110	1300	207	476	36	11	20
9	47	433	750	97	73	110	1010	178	376	33	10	19
10	510	330	510	95	72	150	856	176	263	31	9.4	19
11	516	269	340	102	71	280	746	317	219	29	10	19
12	291	228	230	120	72	470	753	334	333	26	11	18
13	179	209	180	136	72	840	1060	280	450	31	11	18
14	129	180	150	130	74	2000	1520	225	364	37	12	200
15	110	170	130	122	75	3770	1640	183	278	37	39	150
16	96	155	109	116	76	4970	1420	154	205	32	67	110
17	82	145	105	110	76	4830	1310	134	151	27	399	74
18	72	135	112	106	75	4290	1260	120	207	25	887	64
19	63	130	127	102	74	3000	1160	106	256	20	532	57
20	58	125	114	99	72	2350	1000	94	301	18	324	54
21	769	115	155	96	70	2050	886	84	320	16	212	72
22	1800	110	201	93	69	1800	850	76	466	13	155	90
23	1050	105	236	90	67	1650	856	68	395	11	150	59
24	637	105	196	88	67	1500	828	59	288	10	135	68
25	490	103	158	86	67	1400	879	51	221	10	105	86
26	538	100	141	84	68	1330	985	46	190	11	76	250
27	459	104	161	82	70	1430	803	40	197	13	57	1200
28	355	121	176	82	72	1730	667	36	198	13	48	950
29	290	180	156	88	---	2020	595	54	175	10	42	540
30	252	160	140	90	---	2250	495	75	217	9.4	36	330
31	236	---	130	90	---	2630	---	64	---	10	32	---
TOTAL	9315	8769	6556	3179	2056	47768	39329	5270	8343	1308.4	3451.4	4642
MEAN	300	292	211	103	73.4	1541	1311	170	278	42.2	111	155
MAX	1800	1090	1050	136	86	4970	3190	419	476	293	887	1200
MIN	29	100	97	82	67	90	495	36	50	9.4	9.4	18
CFSM	1.69	1.64	1.19	.58	.41	8.66	7.37	.96	1.56	.24	.62	.87
IN.	1.95	1.83	1.37	.66	.43	9.98	8.22	1.10	1.74	.27	.72	.97

CAL YR 1976 TOTAL 153350.0 MEAN 419 MAX 4720 MIN 24 CFSM 2.35 IN 32.05
WTR YR 1977 TOTAL 139986.8 MEAN 384 MAX 4970 MIN 9.4 CFSM 2.16 IN 29.26

NOTE.--No gage-height record Sept. 1-30.

Reservoirs in Penobscot River basin

01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi (58 km) upstream from Millinocket and 42 mi (68 km) northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 ft^3 (850,000,000 m^3). Records furnished by Great Northern Paper Co.

01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi (5 km) upstream from Millinocket, Maine, used for power; usable capacity of reservoir, 15,000,000,000 ft^3 (420,000,000 m^3). Records furnished by Great Northern Paper Co.

01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 ft^3/s (142,700,000 m^3) between gage height 2.0 ft (0.61 m) and 11.0 ft (3.35 m). Records furnished by Bangor Hydro-Electric Co.

01032500 SEBEC LAKE on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity, 2,511,000,000 ft^3 (71,110,000 m^3) between elevations 316.1 ft (96.35 m) and 325.1 ft (99.09 m). Records furnished by Bangor Hydro-Electric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CHESUNCOOK, RIPOGENUS CARIBOU, AMBAJEJUS, PEMADUMCOOK, NORTH TWIN SOUTH TWIN, AND ELBOW LAKES AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES AND ROUND POND	SEBEC LAKE
SEPT. 30, 1976	51331	3933	1175
OCT. 31	55327	5042	1749
NOV. 30	52005	5626	1611
DEC. 31	45338	5314	1502
JAN. 31, 1977	37034	3695	1284
FEB. 28	28392	1417	713
MAR. 31	22578	1315	1365
APR. 30	47907	4374	1779
MAY 31	55342	5626	1529
JUNE 30	58304	6245	2365
JULY 31	49468	5615	1866
AUG. 31	43424	5141	1720
SEPT. 30	41156	2988	1749

* Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power, total capacity, approximately 12,000,000,000 ft^3 (340,000,000 m^3); Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

01037700 TRIBUTARY A LITTLE POND NEAR DAMARISCOTTA, ME

LOCATION.--Lat 44°02'44", long 69°28'05", Lincoln County, Hydrologic Unit 01050003, on right bank 300 ft (91 m) upstream from mouth, and 2.8 mi (4.5 km) east of Damariscotta.

DRAINAGE AREA.--0.31 mi² (0.80 km²).

PERIOD OF RECORD.--April 1976 to March 1977 (occasional discharge measurements), April to September 1977.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 110 ft (33.5 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, 3.5 ft³/s (0.991 m³/s) June 2, Sept. 26, gage height, 2.05 ft (0.625 m); minimum, no flow Aug. 3-5, Sept. 4-10, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.36	.05	.19	.01	.01
2							---	.38	1.3	.16	.01	.01
3							---	.40	.68	.14	.00	.01
4							---	.33	1.5	.13	.00	.00
5							---	.33	1.2	.11	.00	.00
6							---	.37	.88	.09	.01	.00
7							---	.31	.72	.07	.01	.00
8							---	.26	.92	.07	.01	.00
9							---	.27	.67	.07	.01	.00
10							---	1.8	.50	.06	.01	.00
11							---	1.1	.54	.04	.01	.01
12							---	.67	.90	.06	.01	.00
13							---	.53	.99	.11	.01	.01
14							---	.49	.55	.06	.01	.25
15							---	.31	.38	.04	.01	.03
16							.45	.27	.26	.03	.01	.01
17							.43	.24	.28	.03	.16	.01
18							.39	.15	.28	.02	.03	.02
19							.33	.14	.28	.01	.01	.01
20							.34	.11	.23	.01	.01	.02
21							.33	.06	.26	.02	.01	.30
22							.30	.04	.28	.03	.02	.12
23							.46	.03	.24	.01	.02	.07
24							.90	.02	.20	.01	.01	.05
25							1.4	.01	.19	.05	.01	.03
26							.81	.01	.58	.03	.01	.58
27							.64	.03	.34	.01	.01	.60
28							.57	.08	.24	.01	.01	.25
29							.47	.08	.29	.01	.01	.18
30							.42	.06	.24	.01	.01	.14
31							---	.05	---	.01	.01	---
TOTAL							---	9.29	15.97	1.70	.47	2.72
MEAN							---	.30	.53	.055	.015	.091
MAX							---	1.8	1.5	.19	.16	.60
MIN							---	.01	.05	.01	.00	.00
CFSM							---	.97	1.71	.18	.05	.29
IN.							---	1.11	1.91	.20	.06	.33

01038000 SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, Hydrologic Unit 01050003, on left bank at North Whitefield 50 ft (15 m) upstream from highway bridge and 0.6 mi (1.0 km) downstream from Pleasant Pond Brook.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--Discharge: October 1938 to current year.
Specific conductance: July 1974 to September 1976.
Water temperatures: October 1957 to September 1971, July 1974 to September 1976.

REMARKS.--Records good except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--39 years, 245 ft³/s (6.938 m³/s), 22.48 in/yr (571 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,420 ft³/s (182 m³/s) Dec. 18, 1973, gage height, 12.52 ft (3.816 m), from floodmarks; minimum, 5.0 ft³/s (0.14 m³/s) Oct. 24, 1941, gage height, 1.70 ft (0.518 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 15	0600	*4020	114	*9.52	2.902	Apr. 1	0100	1640	46.4	6.11	1.862

Minimum discharge, 13 ft³/s (0.37 m³/s) Sept. 12, 13, gage height, 1.83 ft (0.558 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	245	122	115	105	170	1550	338	59	120	30	23
2	33	218	119	110	100	186	1430	309	146	108	30	22
3	33	201	110	110	99	175	1540	287	185	100	29	22
4	31	264	105	105	96	165	1490	261	292	93	27	21
5	29	382	98	105	95	191	1330	240	345	87	26	20
6	28	319	97	105	94	200	1270	230	393	80	27	20
7	28	300	186	105	92	195	1100	223	406	72	27	20
8	29	288	502	110	91	185	952	204	434	67	26	19
9	46	267	332	110	90	180	841	191	402	65	25	18
10	166	250	294	115	89	190	736	250	352	61	24	17
11	102	231	260	120	88	230	643	326	325	55	26	17
12	74	213	230	125	89	350	574	251	321	53	28	15
13	62	193	200	125	90	544	539	229	296	59	29	16
14	60	182	180	120	91	2250	520	215	258	58	26	86
15	60	173	165	120	95	3780	485	203	232	52	32	102
16	56	166	160	115	97	3390	452	190	207	48	31	58
17	51	156	155	110	99	2940	423	178	185	45	59	48
18	47	150	150	110	97	2310	398	168	174	43	72	50
19	45	144	145	105	95	1910	365	155	162	40	47	52
20	51	136	144	105	92	1560	333	145	151	38	38	47
21	463	126	156	100	90	1340	309	135	146	44	34	78
22	362	120	150	99	88	1150	291	124	158	62	33	143
23	228	117	145	98	87	1020	328	112	169	46	39	91
24	218	109	140	96	86	876	406	103	143	40	39	72
25	247	107	135	96	89	769	571	95	129	40	36	64
26	279	104	130	100	100	699	501	87	128	45	33	112
27	253	102	130	105	120	728	451	78	127	40	30	786
28	231	104	120	110	140	771	433	72	115	36	28	409
29	213	130	120	110	---	919	411	78	109	34	27	302
30	201	150	120	110	---	1010	371	73	138	32	26	305
31	198	---	120	110	---	1390	---	65	---	32	25	---
TOTAL	3960	5647	5220	3379	2684	31773	21043	5615	6687	1795	1009	3055
MEAN	128	188	168	109	95.9	1025	701	181	223	57.9	32.5	102
MAX	463	382	502	125	140	3780	1550	338	434	120	72	786
MIN	28	102	97	96	86	165	291	65	59	32	24	15
CFSM	.86	1.27	1.14	.74	.65	6.93	4.74	1.22	1.51	.39	.22	.69
IN.	1.00	1.42	1.31	.85	.67	7.99	5.29	1.41	1.68	.45	.25	.77

CAL YR 1976 TOTAL 105331 MEAN 288 MAX 2600 MIN 28 CFSM 1.95 IN 26.47
WTR YR 1977 TOTAL 91867 MEAN 252 MAX 3780 MIN 15 CFSM 1.70 IN 23.09

01040500 MOOSEHEAD LAKE AT EAST OUTLET, ME

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, Hydrologic Unit 01030001, on left bank at wharf at east outlet of lake at Moosehead.

DRAINAGE AREA.--1,266 mi² (3,279 km²).

PERIOD OF RECORD.--March 1895 to current year.

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft (308.299 m) above mean sea level.

COOPERATION.--Gage-height record furnished by Kennebec Water Power Co.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft (2.13 m). Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft (3.05 m) at a faster rate than formerly. Capacity, 23,735,000,000 ft³ (672,200,000 m³) between gage heights 10.0 ft (3.05 m) and 17.5 ft (5.33 m). Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1977, is given below:

October	70	February	50	June	70
November	70	March	40	July	60
December	70	April	40	August	60
January	60	May	70	September	60

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.0 ft (5.49 m) May 30, 1902; minimum, 10.0 ft (3.05 m) or lower, present datum Mar. 20-29, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 17.80 ft (5.425 m) June 20, 21; minimum observed, 15.04 ft (4.584 m) Mar. 13, 14.

Capacity table (elevation, in feet, and contents, in million cubic feet)

15.0	15,713
16.0	18,908
17.0	22,121
18.0	25,355

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.98	17.64	17.28	17.35	16.75	15.66	15.57	17.25	17.52	17.64	16.61	16.12
2	16.96	17.66	17.26	17.34	16.67	15.58	15.68	17.32	17.50	17.61	16.61	16.08
3	16.94	17.66	17.25	17.34	16.61	15.54	15.80	17.48	17.50	17.61	16.60	16.05
4	16.92	17.67	17.25	17.34	16.54	15.48	15.90	17.54	17.50	17.63	16.58	16.03
5	16.89	17.74	17.25	17.33	16.52	15.45	16.00	17.58	17.51	17.63	16.55	16.02
6	16.85	17.76	17.25	17.31	16.51	15.45	16.10	17.59	17.54	17.62	16.53	16.02
7	16.81	17.76	17.25	17.24	16.49	15.43	16.20	17.59	17.54	17.60	16.53	16.00
8	16.78	17.77	17.35	17.24	16.44	15.34	16.20	17.61	17.53	17.57	16.53	15.97
9	16.78	17.74	17.40	17.24	16.38	15.24	16.25	17.62	17.51	17.51	16.49	15.93
10	16.76	17.67	17.37	17.24	16.33	15.18	16.28	17.62	17.50	17.49	16.41	15.85
11	16.80	17.64	17.35	17.24	16.28	15.14	16.28	17.60	17.50	17.50	16.38	15.83
12	16.83	17.61	17.33	17.24	16.24	15.08	16.28	17.54	17.52	17.48	16.38	15.79
13	16.87	17.58	17.33	17.23	16.20	15.04	16.28	17.52	17.55	17.50	16.35	15.70
14	16.93	17.58	17.33	17.19	16.18	15.04	16.30	17.50	17.57	17.49	16.32	15.68
15	16.96	17.59	17.31	17.19	16.15	15.12	16.33	17.50	17.59	17.42	16.32	15.68
16	17.02	17.59	17.29	17.18	16.12	15.17	16.38	17.51	17.60	17.36	16.29	15.68
17	17.08	17.58	17.27	17.17	16.12	15.26	16.44	17.51	17.59	17.31	16.26	15.67
18	17.12	17.56	17.26	17.15	16.11	15.33	16.52	17.51	17.65	17.30	16.25	15.69
19	17.17	17.55	17.24	17.12	16.05	15.37	16.59	17.53	17.70	17.26	16.22	15.69
20	17.20	17.55	17.24	17.06	16.01	15.44	16.68	17.55	17.80	17.22	16.21	15.67
21	17.30	17.53	17.26	17.00	15.98	15.50	16.78	17.55	17.80	17.19	16.22	15.61
22	17.60	17.53	17.25	16.92	15.94	15.52	16.96	17.55	17.76	17.15	16.20	15.54
23	17.64	17.50	17.25	16.88	15.88	15.52	17.03	17.58	17.76	17.09	16.20	15.50
24	17.65	17.46	17.25	16.86	15.82	15.50	17.08	17.59	17.76	17.04	16.18	15.43
25	17.66	17.44	17.26	16.83	15.82	15.48	17.16	17.59	17.70	16.98	16.21	15.43
26	17.66	17.39	17.29	16.80	15.78	15.50	17.22	17.59	17.74	16.97	16.21	15.38
27	17.65	17.35	17.34	16.74	15.74	15.51	17.25	17.59	17.76	16.90	16.21	15.40
28	17.63	17.32	17.34	16.73	15.71	15.53	17.25	17.55	17.74	16.82	16.20	15.46
29	17.60	17.32	17.35	16.75	------	15.50	17.23	17.58	17.70	16.72	16.20	15.55
30	17.57	17.32	17.37	16.77	------	15.49	17.21	17.56	17.64	16.64	16.18	15.60
31	17.57	------	17.37	16.78	------	15.46	------	17.54	------	16.64	16.16	------
MAX	17.66	17.77	17.40	17.35	16.75	15.66	17.25	17.62	17.80	17.64	16.61	16.12
MIN	16.76	17.32	17.24	16.73	15.71	15.04	15.57	17.25	17.50	16.64	16.16	15.38
†	23,962	23,154	23,315	21,413	17,980	17,180	22,798	23,865	24,189	20,962	19,422	17,628
‡	+1,777	-808	+161	-1,902	-3,433	-800	+5,618	+1,067	+324	-3,227	-1,540	-1,794

CAL YR: . . . . ‡ +8,047
WTR YR: . . . . ‡ -4,557

† Contents, in millions of cubic feet, at end of month.
‡ Change in contents, in millions of cubic feet.

01041000 KENNEBEC RIVER AT MOOSEHEAD, ME

LOCATION.--Lat 45°35'08", long 69°43'05", Somerset County, Hydrologic Unit 01030001, on right bank 700 ft (213 m) downstream from dam at East Outlet of Moosehead Lake and 0.2 mi (0.3 km) northwest of Moosehead.

DRAINAGE AREA.--1,266 mi² (3,279 km²).

PERIOD OF RECORD.--October 1919 to current year.

REVISED RECORDS.--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,015.53 ft (309.534 m) above mean sea level. Prior to Oct. 9, 1924, nonrecording gage on railroad bridge 300 ft (91 m) downstream at same datum.

REMARKS.--Records good. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (station 01040500) and by Brassua Lake and First Roach Pond (Reservoirs in Kennebec River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--58 years, 1,949 ft³/s (55.20 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,700 ft³/s (473 m³/s) May 3, 1974, gage height, 9.74 ft (2.969 m); minimum, about 62 ft³/s (1.76 m³/s) Apr. 7-15, 1923.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,910 ft³/s (224 m³/s) Apr. 27, 29, gage height, 7.17 ft (2.185 m); minimum, 172 ft³/s (4.87 m³/s) Aug. 21, gage height, 2.27 ft (0.692 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2010	2060	2800	2320	3200	4040	517	3180	2380	4920	2120	1740
2	2010	2950	1580	1190	3530	4470	521	2540	2380	4000	2130	1730
3	1740	2990	1280	1650	3500	4420	529	3810	1570	2230	2120	1400
4	1580	2540	1270	2130	3200	4380	529	4330	593	2230	2120	1100
5	1990	2870	1280	2750	2730	3760	533	4400	595	2700	2120	1090
6	1970	4140	1270	2820	1800	3190	536	4900	2500	3210	1970	1480
7	2350	4120	838	2340	2620	3980	1280	4070	2930	2780	1140	1730
8	4010	4630	423	1250	3390	4260	1810	4470	2170	2190	2170	1700
9	3360	4920	1160	1250	3350	4210	1410	4470	1850	2190	2250	1680
10	1290	3970	2320	1750	3330	4140	1130	5010	1850	1510	1850	1670
11	381	3450	2150	2160	3300	4100	1530	5830	1850	1820	1830	1670
12	383	2610	1560	2750	3280	4040	1830	4790	1420	2170	1840	2170
13	379	1200	1450	3770	2380	2730	1830	4920	1170	2170	1830	2480
14	956	537	2260	2120	2820	1460	1840	4060	829	3210	1370	1950
15	1130	1560	2230	1120	3250	400	1390	2470	593	2890	1550	1160
16	1020	2280	2130	1120	3240	226	1060	2190	1800	2120	1810	1320
17	1020	2260	2130	1660	3220	232	1060	1890	1870	1920	1370	967
18	1030	2230	2210	2120	3470	242	1070	1200	1120	1830	1100	521
19	1030	2230	1160	2690	3800	227	1080	2040	1130	2110	1100	1450
20	1030	1260	1450	3670	3770	230	1080	3030	3480	2090	1100	1990
21	598	647	2120	3670	3350	1670	1610	1880	4930	2080	1070	1960
22	1060	2210	2180	2670	3730	2650	3470	811	5080	1910	1490	1960
23	3160	2920	2270	1380	3700	3260	5210	807	5110	1670	1610	2540
24	4040	2490	1190	1880	3670	3940	4180	970	5900	1970	1030	1510
25	4280	2180	569	3180	3670	3350	4280	972	5870	1960	1110	895
26	4420	2260	574	3570	3650	2040	6020	978	5940	2560	970	2400
27	4400	2150	1420	3110	3610	1590	7480	1250	5910	2910	699	522
28	4260	2200	2150	2340	3590	3140	7800	1400	5880	2880	699	483
29	3990	2180	2210	1180	---	3890	7800	1750	5840	2770	1400	486
30	2730	3160	2200	1170	---	3860	6320	2310	5590	2130	1790	486
31	1240	---	2200	2230	---	1760	---	2480	---	2130	1760	---
TOTAL	64847	77204	52034	69010	92150	85887	76735	89208	90130	75260	48518	44240
MEAN	2092	2573	1679	2226	3291	2771	2558	2878	3004	2428	1565	1475
MAX	4420	4920	2800	3770	3800	4470	7800	5830	5940	4920	2250	2540
MIN	379	537	423	1120	1800	226	517	807	593	1510	699	483

CAL YR 1976 TOTAL 902302 MEAN 2465 MAX 9840 MIN 238
WTR YR 1977 TOTAL 865223 MEAN 2370 MAX 7800 MIN 226

01042500 KENNEBEC RIVER AT THE FORKS, ME

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, Hydrologic Unit 01030001, on right bank at The Forks 0.4 mi (0.6 km) upstream from highway bridge and 0.7 mi (1.1 km) upstream from Dead River.

DRAINAGE AREA.--1,589 mi^2 (4,116 km^2).

PERIOD OF RECORD.--September 1901 to current year.

REVISED RECORDS.--WSP 1231: 1902-4, 1906-8, 1912, 1914, 1919-20(M), 1923(M), 1926(M), 1928-29(M), 1936(M), 1938(M). WSP 1301: 1928-35 (adjusted monthly runoff). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft (173.440 m) above mean sea level. Prior to June 21, 1912, nonrecording gage, and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Flow regulated by Moosehead Lake (station 01040500), Brassua Lake, and Moxie, Indian, and First Roach Ponds (Reservoirs in Kennebec River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--76 years, 2,599 ft^3/s (73.6 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,900 ft^3/s (705 m^3/s) Dec. 22, 1973, gage height, 12.68 ft (3.865 m); minimum, 85 ft^3/s (2.41 m^3/s) Sept. 3, 1953, gage height, 1.02 ft (0.311 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,300 ft^3/s (320 m^3/s) Apr. 26, gage height, 6.92 ft (2.109 m); minimum daily, 200 ft^3/s (5.66 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2720	3490	1800	600	4580	4270	2340	4570	2670	6210	3000	2450
2	1550	3780	1800	740	3460	4630	2840	6310	2610	4960	2260	3050
3	476	3500	1800	3170	2740	5630	2180	3200	2940	2370	2440	1000
4	2670	3120	1800	3370	2400	5390	2370	5040	344	2110	2160	250
5	2780	3950	1250	3430	2070	3890	2830	5480	355	4370	1970	305
6	2730	6140	2250	2740	1470	2150	3360	5600	3780	2860	1280	3510
7	3150	6090	2300	2240	3850	4930	3580	5510	3000	2240	394	2000
8	3170	5980	700	1050	4570	5640	3400	5300	2480	2910	2570	2500
9	3420	5880	2300	810	4560	4920	2780	5520	2400	2850	3300	3000
10	2170	5810	2300	3370	4090	4600	1300	5760	2420	480	2590	2150
11	1580	3850	2250	3500	3860	4160	2740	6920	1670	3420	2630	780
12	2880	4030	700	3500	2630	3310	2820	7740	1270	3290	2100	2450
13	1880	1850	2400	3400	1520	2400	2490	5460	1850	3350	1190	2610
14	2570	808	2450	2690	4310	2400	2340	3870	1370	3270	208	2600
15	2280	3080	2900	1380	4370	1140	3410	2290	1710	2430	2580	1500
16	597	3150	2800	835	3940	1080	3070	2700	1460	1660	3030	1220
17	531	2730	2010	3800	4020	1090	2790	3080	1960	1000	1980	300
18	1870	2570	1200	3000	4320	1020	3600	2290	1820	3470	700	900
19	1430	2030	1550	3000	2730	1010	3860	2320	1810	3320	1190	2950
20	1900	2240	2400	4300	1610	952	4230	2350	4090	2610	1200	3500
21	1870	996	2850	3200	3750	4380	5350	1190	5890	2670	300	3550
22	3460	3800	2900	1840	4500	4770	6670	998	8310	2340	3120	3200
23	4290	3290	2900	1260	5310	3730	10000	1640	8780	1100	2000	3050
24	6030	3550	690	3670	4860	4150	7890	1470	8640	301	1300	1920
25	5190	3420	680	4060	4760	4130	7460	1280	4880	2990	710	305
26	5730	3720	1200	3320	2970	1970	8450	1750	6680	3030	620	3600
27	5560	3500	3480	3390	1600	2080	11000	2290	8770	3190	545	450
28	5580	1410	2970	3320	4680	4940	10900	1460	8550	3620	660	200
29	4550	3440	2870	2210	---	4660	10600	1680	9050	3270	3710	200
30	3890	3550	2800	1450	---	4480	6790	1800	7150	1290	3150	200
31	1460	---	1810	3360	---	2320	---	2610	---	480	2500	---
TOTAL	89964	104754	64110	82005	99530	106222	143440	109478	118709	83461	57387	55700
MEAN	2902	3492	2068	2645	3555	3427	4781	3532	3957	2692	1851	1857
MAX	6030	6140	3480	4300	5310	5640	11000	7740	9050	6210	3710	3600
MIN	476	808	680	600	1470	952	1300	998	344	301	208	200

CAL YR 1976 TOTAL 1250286 MEAN 3416 MAX 11600 MIN 305
WTR YR 1977 TOTAL 1114760 MEAN 3054 MAX 11000 MIN 200

NOTE.--No gage-height record Aug. 16 to Sept. 30.

01043500 DEAD RIVER NEAR DEAD RIVER, ME

LOCATION.--Lat 45°13'48", long 70°11'58", Somerset County, Hydrologic Unit 01030002, on right bank at foot of Long Falls, in T. 3, R. 4, 0.3 mi (0.5 km) upstream from Black Brook, and 0.5 mi (0.8 km) downstream from Flagstaff Lake Dam.

DRAINAGE AREA.--520 mi² (1,347 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October to December 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 1,037.32 ft (316.175 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Flagstaff Lake (Reservoirs in Kennebec River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--38 years, 858 ft³/s (24.30 m³/s), 22.41 in/yr (569 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 18,000 ft³/s (510 m³/s) Sept. 12, 1954, gage height, 11.50 ft (3.505 m); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,910 ft³/s (167 m³/s) June 23, gage height, 8.67 ft (2.643 m); minimum daily, 4.1 ft³/s (0.116 m³/s) Mar. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	1300	1270	1820	1660	211	27	1200	132	1450	1300	860
2	1020	1790	1390	1810	1650	9.6	19	975	126	1130	1010	1320
3	1020	1890	1690	2060	1650	8.7	20	1750	127	1210	1000	1100
4	613	1320	1880	2080	1660	8.5	781	2150	131	896	993	1200
5	362	659	1890	1810	1650	7.6	1190	1570	136	430	1070	980
6	358	1650	1890	1810	1080	6.7	1770	1410	142	159	1220	1150
7	360	1490	1690	1800	806	6.3	4550	1740	146	159	1200	2130
8	544	1470	194	1790	802	4.9	5230	1820	152	223	1190	1420
9	973	1930	634	1790	769	4.1	4650	1210	162	175	1180	2770
10	813	1550	1260	1780	807	5.9	4260	729	166	176	1170	2640
11	70	1210	1460	1780	805	6.2	4220	672	211	176	1150	2460
12	72	767	1450	1770	798	5.7	3520	1130	356	584	1140	746
13	78	259	1440	1760	798	6.6	2820	1620	981	793	1130	78
14	180	156	1420	1760	798	107	2140	1470	1290	786	1120	87
15	1110	639	1390	1750	796	61	816	687	1380	774	1110	78
16	1340	1180	1370	1740	566	28	19	526	1300	769	1090	367
17	1320	1290	1350	1730	426	17	24	536	1220	764	366	1190
18	1310	1390	1320	1720	426	18	34	524	1080	759	18	685
19	1310	1170	1290	1420	426	9.4	50	550	1030	753	17	18
20	1300	649	1470	1270	426	9.4	72	1410	1100	747	1090	18
21	739	646	1590	1270	426	9.0	1210	1970	1300	743	1650	18
22	1890	643	1590	1270	426	9.0	2370	1940	3310	944	1850	18
23	3310	600	1580	1260	426	9.4	2400	1670	5040	1020	1420	18
24	2530	604	1920	1260	426	9.4	1010	1510	3950	1010	1080	18
25	1880	604	1680	1540	426	16	201	1040	2410	997	358	18
26	1660	604	1920	1710	426	9.0	207	134	2020	988	18	19
27	1640	604	2060	1710	426	9.4	216	974	2040	1180	17	22
28	1350	604	1850	1700	425	9.8	1540	1440	2050	1270	17	33
29	1080	914	1840	1690	---	10	2700	1440	1960	1390	1240	43
30	816	1080	1830	1680	---	15	2020	1440	1950	1650	2210	23
31	714	---	1820	1670	---	32	---	632	---	1610	996	---
TOTAL	32428	30662	47428	52010	22206	679.6	50086	37869	37398	25715	30420	21527
MEAN	1046	1022	1530	1678	793	21.9	1670	1222	1247	830	981	718
MAX	3310	1930	2060	2080	1660	211	5230	2150	5040	1650	2210	2770
MIN	70	156	194	1260	425	4.1	19	134	126	159	17	18
MEAN‡	1406	802	515	373	229	1401	3262	956	1522	253	403	540
CFSM‡	2.70	1.54	.99	.72	.44	2.69	6.27	1.84	2.93	.49	.78	1.04
IN.‡	3.11	1.72	1.14	.83	.46	3.10	7.00	2.12	3.27	.56	.89	1.16

CAL YR 1976 TOTAL 363740.0 MEAN 994 MAX 8270 MIN 5.0 MEAN‡ 1162 CFSM‡ 2.23 IN.‡ 30.38
WTR YR 1977 TOTAL 388428.6 MEAN 1064 MAX 5230 MIN 4.1 MEAN‡ 971 CFSM‡ 1.87 IN.‡ 25.36

‡ Adjusted for change in contents in Flagstaff Lake.

01045000 DEAD RIVER AT THE FORKS, ME

LOCATION.--Lat 45°20'59", long 69°59'26", Somerset County, Hydrologic Unit 01030002, on left bank 1.5 mi (2.4 km) northwest of The Forks and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--872 mi² (2,258 km²).

PERIOD OF RECORD.--September 1901 to August 1907, March 1910 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 801: Drainage area. WSP 1231: 1913-15, 1916-17(M), 1919-20(M), 1922(M), WSP 1301: 1904(M), 1907, 1911-12.

GAGE.--Water-stage recorder. Datum of gage is 600.5 ft (183.03 m) above mean sea level. Prior to September 29, 1923, nonrecording gage at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Flagstaff Lake (Reservoirs in Kennebec River basin). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--72 years (water years 1902-6, 1911-77), 1,450 ft³/s (41.06 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,700 ft³/s (813 m³/s) Mar. 20, 1936, gage height, 10.54 ft (3.213 m) from rating curve extended above 15,000 ft³/s (425 m³/s); minimum daily since September 1923, 61 ft³/s (1.73 m³/s) Dec. 23, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,670 ft³/s (217 m³/s) June 23, gage height, 5.66 ft (1.725 m); minimum daily, 142 ft³/s (4.02 m³/s) Mar. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	731	1960	1430	2050	1710	505	3250	2860	492	2560	1500	606
2	1220	2500	1630	2200	1700	242	2690	2480	437	1820	1100	1460
3	1210	2540	1860	2350	1700	201	1960	3150	440	1840	1080	1140
4	1020	2280	2410	2250	1680	196	1710	3780	534	1510	1060	1290
5	584	1720	2740	2000	1670	185	3270	2980	564	1190	1080	1060
6	569	2420	2920	2000	1360	156	2210	2700	700	614	1330	1470
7	566	2720	2660	1980	898	149	5050	3040	749	542	1300	2190
8	648	2140	1020	1950	900	144	6240	3030	890	523	1260	2430
9	1860	2540	895	1950	900	142	5660	2420	849	535	1240	2950
10	2660	2330	1470	1950	890	159	5080	1690	701	478	1220	2740
11	1510	1770	1720	1950	880	234	4580	1490	701	453	1210	2580
12	892	1500	1750	1940	874	311	4290	1690	968	603	1220	1700
13	702	900	1750	1940	881	440	4230	2250	1450	1060	1190	234
14	733	645	1710	1940	877	739	4320	2330	1850	1060	1180	311
15	1610	756	1700	1950	881	1650	3380	1480	1800	1020	1160	766
16	1980	1590	1700	1950	846	2400	1730	1100	1690	993	1130	496
17	1840	1610	1680	1950	691	2240	1830	1110	1560	973	907	1220
18	1740	1750	1620	1920	580	1750	2400	1160	1980	958	291	1250
19	1680	1710	1700	1650	550	1540	2890	1120	1880	944	207	350
20	1640	1080	2050	1480	530	1280	3180	1520	2110	931	588	211
21	2930	1020	2020	1460	520	1110	4320	2410	2270	919	1720	195
22	4280	1010	2000	1470	520	950	7020	2320	5040	1010	1810	222
23	5280	953	2000	1470	515	839	7420	2110	7120	1140	1790	227
24	3980	922	2300	1470	515	731	5350	1820	6090	1140	1370	213
25	3040	925	2280	1480	515	659	3340	1680	3930	1140	1390	193
26	2550	887	2250	1750	510	605	2950	578	3590	1090	527	199
27	2420	936	2200	1740	510	567	2640	816	3760	1160	339	825
28	2140	1030	2150	1750	510	592	3160	1680	3380	1310	259	968
29	1710	1210	2100	1750	---	694	4840	1940	2970	1320	669	1280
30	1510	1420	2100	1740	---	893	3800	1900	2980	1670	2360	1450
31	1320	---	2080	1720	---	1970	---	1400	---	1650	1650	---
TOTAL	56555	46774	59895	57150	25113	24273	114790	62034	63475	34156	35137	32226
MEAN	1824	1559	1932	1844	897	783	3826	2001	2116	1102	1133	1074
MAX	5280	2720	2920	2350	1710	2400	7420	3780	7120	2560	2360	2950
MIN	566	645	895	1460	510	142	1710	578	437	453	207	193

CAL YR 1976 TOTAL 663165 MEAN 1812 MAX 8730 MIN 247
WTR YR 1977 TOTAL 611578 MEAN 1676 MAX 7420 MIN 142

01046500 KENNEBEC RIVER AT BINGHAM, ME
(National stream-quality accounting network station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, Hydrologic Unit 01030003, on right bank at Bingham, 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 mi² (7,045 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.

REVISED RECORDS.--WSP 1271: 1951(M). WSP 1301: 1936(M). WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft (100.64 m) above mean sea level. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

REMARKS.--Records good. Flow regulated by Moosehead Lake (station 01040500), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (Reservoirs in Kennebec River basin). Considerable diurnal fluctuation caused by powerplant above station.

AVERAGE DISCHARGE.--49 years (water years 1908-9, 1931-76), 4,436 ft³/s (126 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58,800 ft³/s (1,670 m³/s) Mar. 20, 1936, gage height, 14.44 ft (4.401 m), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 ft³/s (3.12 m³/s) Dec. 25, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,900 ft³/s (535 m³/s) Apr. 24, gage height, 10.71 ft (3.264 m); minimum daily, 1,710 ft³/s (48.4 m³/s) Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	5510	4150	4150	4430	4500	7880	9500	3320	8510	3520	3290
2	3180	4820	3930	4100	4850	4660	8880	7950	3240	7690	3530	3300
3	3610	4950	3840	4150	4550	4570	8950	7420	3240	5080	3620	3310
4	3550	5190	4000	4200	4450	4830	8730	8430	3300	5000	3510	3340
5	3400	6960	4100	4300	4480	4440	8650	8440	3050	4570	3480	3340
6	3610	8710	4000	4300	4720	4490	8470	8430	3220	3430	3350	3460
7	3730	8630	3600	4300	4590	4600	8400	8370	3110	2780	3450	3530
8	3690	8560	4100	4250	4760	4540	8330	8340	3280	3390	3360	3500
9	3520	8500	3650	4250	4530	4520	8270	8270	3070	3460	3410	3480
10	5450	8450	4050	4300	4490	4580	8260	8260	3200	3220	3410	3330
11	3690	6990	4120	4400	4520	4200	8260	8270	3370	3400	3410	3350
12	3440	5000	4150	4380	4240	4160	8270	8280	2560	3250	3460	3450
13	3320	4410	4050	4560	4300	4550	8430	8230	2720	3990	3420	3330
14	3380	3010	4140	4410	4210	4330	8620	6680	3030	3810	3300	2550
15	3320	3200	4120	4230	4460	4890	8600	7330	3480	3340	3410	2400
16	3420	4080	4040	4330	4970	5700	8530	2720	3780	3210	3480	2300
17	3310	4180	4030	4430	4900	5710	8650	3380	3720	3270	2680	2220
18	3330	4060	4120	4560	4650	5140	8800	3280	3930	3210	1710	2600
19	3340	4120	4110	4220	4600	4960	8860	3250	4050	3460	2480	3000
20	3770	4260	4050	4440	4550	4970	8960	3850	6130	3260	2610	3210
21	6990	4030	4110	4410	4480	4900	9080	3680	8070	3430	2660	3140
22	9400	4030	4050	4590	4510	4980	9280	3880	13100	3640	2890	2970
23	10500	4220	4010	4780	4560	4830	9380	3470	16100	3530	2910	3070
24	10000	4150	4010	4490	4480	4890	13400	3190	14800	3490	2700	2920
25	9370	4070	4120	4260	4500	4990	12000	3320	9800	3420	2500	2830
26	8590	4040	4000	4350	4360	4860	12000	3260	13000	3670	2860	2870
27	8560	4110	3850	4330	4350	4920	14200	3290	13600	3530	2820	2430
28	8480	3680	4200	4370	4440	4670	13600	3370	13000	3600	3330	2920
29	8410	3820	4000	4730	---	4850	16100	3270	10800	3520	3210	4220
30	6700	4100	4200	4390	---	4840	10500	3300	10500	3410	3220	4710
31	5230	---	4300	4400	---	6140	---	3300	---	3490	3360	---
TOTAL	163620	153840	125200	135360	126930	149210	290340	176010	191570	120060	97060	94370
MEAN	5278	5128	4039	4366	4533	4813	9678	5678	6386	3873	3131	3146
MAX	10500	8710	4300	4780	4970	6140	16100	9500	16100	8510	3620	4710
MIN	3180	3010	3600	4100	4210	4160	7880	2720	2560	2780	1710	2220

CAL YR 1976 TOTAL 2070990 MEAN 5658 MAX 22300 MIN 1990
WTR YR 1977 TOTAL 1823570 MEAN 4996 MAX 16100 MIN 1710

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 59 micromhos Feb. 16, 1977; minimum, 22 micromhos Dec. 22, 23, 1975.
WATER TEMPERATURES: Maximum, 22.0°C July 18, 1976; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 59 micromhos Feb. 16; minimum, 32 micromhos Nov. 4-6, Sept. 26.
WATER TEMPERATURES: Maximum, 21.0°C July 22; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV												
04...	1500	7170	35	6.7	6.0	--	11.2	90	B6	B2	--	--
DEC												
14...	1600	6390	41	6.7	.5	3	--	--	B1	B1	17	3
JAN												
27...	0930	7030	50	6.6	.5	--	13.0	90	<1	--	--	--
FEB												
17...	1430	6290	50	6.8	.0	4	13.0	89	<1	13	14	1
MAR												
29...	1515	4560	40	6.8	.0	--	13.0	89	<1	11	--	--
MAY												
09...	1500	8360	34	6.7	6.0	1	12.0	96	B3	14	13	3
JUN												
22...	1445	14300	35	6.6	14.5	--	9.4	91	B4	11	--	--
AUG												
03...	1000	4080	36	6.8	19.0	--	7.8	83	B1	B140	--	--
24...	1345	6530	36	6.6	18.0	1	7.7	81	B4	>50	13	7
SEP												
20...	1500	4670	36	6.7	16.0	--	8.5	85	B2	>50	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	4.8	1.1	1.1	12	.1	.4	16	0	13	5.1	4.2	2.4
JAN												
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	4.1	.9	1.0	13	.1	.3	16	0	13	4.1	5.2	2.0
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	3.5	1.1	.6	9	.1	.4	13	0	11	4.2	5.2	1.1
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
24...	3.7	.9	1.1	15	.1	.5	7	0	6	2.8	4.1	.7
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)
NOV												
04...	--	--	--	--	--	.07	.23	.30	1.3	.03	--	--
DEC												
14...	.1	4.0	30	26	518	.12	.25	.37	1.6	.03	0	0
JAN												
27...	--	--	--	--	--	.12	.80	.92	4.1	.02	--	--
FEB												
17...	.1	3.9	29	25	493	.13	.28	.41	1.8	.01	0	0
MAR												
29...	--	--	--	--	--	.18	.20	.38	1.7	.03	--	--
MAY												
09...	.8	3.9	32	22	722	.11	.30	.41	1.8	.00	1	1
JUN												
22...	--	--	--	--	--	.10	.34	.44	1.9	.01	--	--
AUG												
03...	--	--	--	--	--	.11	.32	.43	1.9	.01	--	--
24...	.0	3.4	32	18	564	.09	.09	.18	.80	.01	2	2
SEP												
20...	--	--	--	--	--	.08	.18	.26	1.2	.01	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	0	1	0	1	<10	0	<10	0	0	0	0	0
JAN												
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	0	0	0	0	<10	0	<10	0	0	0	10	0
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	0	0	0	0	<10	<4	6	0	0	0	0	0
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
24...	0	0	0	0	<10	<10	0	0	0	0	3	3
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
NOV 04...	--	--	--	--	--	--	--	--	--	--	--
DEC 14...	0	150	90	10	4	6	20	20	0	<.5	.0
JAN 27...	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	10	120	50	5	5	0	10	0	10	<.5	.0
MAR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 09...	0	220	110	31	16	15	20	10	10	.0	.0
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--
24...	0	80	30	23	16	7	20	10	10	.0	.0
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV 04...	--	--	--	--	--	--	--	--	4	77
DEC 14...	<.5	0	0	0	20	10	10	8.7	68	1170
JAN 27...	--	--	--	--	--	--	--	--	7	133
FEB 17...	<.5	0	0	0	0	0	0	9.8	1	17
MAR 29...	--	--	--	--	--	--	--	--	1	12
MAY 09...	.0	0	0	0	10	10	0	5.2	1	23
JUN 22...	--	--	--	--	--	--	--	--	6	232
AUG 03...	--	--	--	--	--	--	--	--	7	77
24...	.0	0	0	0	10	10	0	5.4	5	88
SEP 20...	--	--	--	--	--	--	--	--	2	25

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
NOV 04	37	1390	1160	0.111	0.045	2090	ARTIFICIAL SUBSTRATE
SEP 20	36	866	393	0.776	0.536	610	ARTIFICIAL SUBSTRATE

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1976 TO FEBRUARY 1977

DATE	NOV 4,76		DEC 14,76		JAN 27,77		FEB 17,77	
TIME	1500		1600		0930		1430	
TOTAL CELLS/ML	38		230		190		59	
DIVERSITY: DIVISION	0.0		1.3		1.2		1.4	
.CLASS	0.7		1.6		1.2		1.4	
..ORDER	1.3		1.7		1.8		2.2	
...FAMILY	1.3		2.1		2.2		2.6	
....GENUS	1.3		2.2		2.3		3.0	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	12	5	6	3	3	5
....KIRCHNERIELLA	--	-	--	-	--	-	3	5
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	9#	16
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	--	-	6	11
....MELOSIRA	25#	67	--	-	--	-	12#	21
...RHIZOSOLENIACEAE								
....RHIZOSOLENIA	--	-	9	4	6	3	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	6#	17	3	1	9	5	9#	16
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	*	0	--	-
...DIATOMACEAE								
....DIATOMA	--	-	9	4	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	3	1	12	6	*	0
....SYNEDRA	--	-	3	1	6	3	3	5
...NAVICULACEAE								
....ANOMOEONEIS	--	-	--	-	--	-	3	5
....NAVICULA	--	-	9	4	--	-	--	-
....STAURONEIS	--	-	--	-	*	0	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	12	5	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	--	-	--	-	21	11	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	6#	17	25	11	--	-	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CHLOROTHECIACEAE								
....OPHIOCYTIUM	--	-	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	--	-	140#	60	99#	53	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	24	13	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	9#	16
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	3	2	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	3	1	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

PHYTOPLANKTON ANALYSES, MARCH 1977 TO SEPTEMBER 1977

DATE	JUN 22,77		AUG 3,77		AUG 24,77		SEP 20,77	
TIME	1445		1000		1345		1500	
TOTAL CELLS/ML	74		3800		400		380	
DIVERSITY: DIVISION	1.5		1.4		1.9		1.5	
.CLASS	1.8		1.7		2.2		1.5	
..ORDER	2.3		1.9		2.9		1.8	
...FAMILY	3.0		2.1		3.5		2.0	
....GENUS	0.0		2.3		3.7		2.0	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	45	11	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	58	1	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	110	3	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	11	14	50	1	--	-	--	-
....KIRCHNERIELLA	--	-	43	1	--	-	--	-
....OOCYSTIS	4	5	--	-	34	8	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	86	2	--	-	--	-
....SCENEDESMUS	--	-	*	0	22	6	14	4
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	11	14	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	50	1	28	7	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....ARTHRODESMUS	*	0	--	-	--	-	--	-
....COSMARIUM	*	0	*	0	--	-	7	2
....SPONDYLOSIUM	--	-	--	-	11	3	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	29	1	22	6	21	6
....MELOSIRA	4	5	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	7	10	36	1	22	6	14	4
...DIATOMACEAE								
....DIATOMA	4	5	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	4	5	*	0	11	3	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	4	5	--	-	--	-	28	8
...NAVICULACEAE								
....NAVICULA	--	-	--	-	11	3	--	-
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	6	1	--	-
...TABELLARIACEAE								
....TABELLARIA	7	10	760#	20	--	-	14	4
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE	4	5	--	-	--	-	--	-
....DINOBRYON	--	-	160	4	6	1	--	-
....OCHROMONAS	--	-	170	4	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	2200#	57	84#	21	230#	60
..HORMOGONALES								
...OSCILLATORIACEAE	18#	24	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	28	7	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	36	1	--	-	50	13
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	17	4	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	34	8	--	-
....TRACHELOMONAS	--	-	36	1	17	4	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	37	35	36	38	36	36	39	37	38	40	37	39
2	37	35	36	38	36	36	39	37	38	41	40	41
3	38	36	37	37	36	36	38	35	36	42	41	41
4	38	35	36	40	32	35	37	36	37	44	41	42
5	37	35	36	32	32	32	37	36	37	42	41	41
6	37	36	36	36	32	35	38	37	38	42	40	41
7	37	35	36	37	35	36	44	36	38	42	41	41
8	37	35	36	37	36	36	37	36	37	42	41	41
9	37	35	36	37	36	37	38	36	36	42	41	41
10	37	35	35	37	37	37	38	36	37	41	41	41
11	38	35	36	37	36	37	39	38	38	43	41	42
12	37	35	36	37	37	37	39	37	38	44	41	42
13	37	35	36	39	37	38	39	36	37	42	41	41
14	37	35	36	40	37	38	52	36	37	42	41	41
15	38	36	36	40	37	38	39	36	37	42	41	41
16	39	36	37	39	37	38	39	37	38	43	41	42
17	39	36	37	39	37	38	39	38	38	42	41	41
18	38	35	36	39	37	38	40	38	39	44	41	42
19	37	35	36	39	37	38	39	37	39	44	42	43
20	38	36	36	38	36	37	40	39	39	45	43	44
21	39	34	36	38	37	37	40	37	39	45	44	45
22	36	35	36	39	37	38	39	36	37	45	44	44
23	37	36	36	39	37	38	39	38	39	45	42	44
24	37	36	37	39	37	38	39	37	39	45	44	45
25	37	36	36	39	38	38	39	38	39	45	45	45
26	36	36	36	39	37	38	40	39	39	46	45	46
27	37	36	36	39	36	37	40	38	39	47	46	46
28	37	37	37	37	36	37	39	37	39	48	46	47
29	37	36	37	38	37	37	40	39	39	48	46	47
30	37	36	37	39	37	37	40	39	39	48	46	47
31	40	36	37	---	---	---	40	39	39	48	47	48
MONTH	40	34	36	40	32	37	52	35	38	48	37	43

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	48	45	48	---	---	---	---	---	---	---	---	---
2	48	45	47	---	---	---	---	---	---	---	---	---
3	49	48	49	---	---	---	---	---	---	---	---	---
4	51	49	50	---	---	---	---	---	---	---	---	---
5	51	50	51	---	---	---	---	---	---	---	---	---
6	51	50	51	---	---	---	---	---	---	---	---	---
7	52	50	51	---	---	---	---	---	---	---	---	---
8	53	50	52	---	---	---	---	---	---	---	---	---
9	55	53	53	---	---	---	---	---	---	---	---	---
10	55	54	55	---	---	---	---	---	---	---	---	---
11	55	55	55	---	---	---	---	---	---	---	---	---
12	56	55	55	---	---	---	---	---	---	---	---	---
13	56	55	55	---	---	---	---	---	---	---	---	---
14	57	56	56	---	---	---	---	---	---	---	---	---
15	57	57	57	---	---	---	---	---	---	---	---	---
16	59	55	57	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	59	45	53	---	---	---	---	---	---	---	---	---

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	42	41	41	41	40	41
2	---	---	---	---	---	---	43	41	42	41	39	40
3	---	---	---	---	---	---	42	36	39	40	40	40
4	---	---	---	---	---	---	37	36	37	41	40	40
5	---	---	---	---	---	---	37	35	36	41	38	40
6	---	---	---	---	---	---	37	36	36	40	38	40
7	---	---	---	---	---	---	38	37	37	40	39	40
8	---	---	---	38	34	36	39	37	38	42	40	40
9	---	---	---	40	38	39	39	36	38	42	40	40
10	---	---	---	39	37	39	38	36	37	41	40	40
11	---	---	---	39	37	39	39	36	37	41	40	41
12	---	---	---	39	36	38	39	36	37	41	40	40
13	---	---	---	39	37	38	38	36	37	43	39	40
14	---	---	---	41	40	40	38	36	37	40	37	39
15	---	---	---	41	40	41	39	36	37	40	38	40
16	---	---	---	41	39	40	39	37	37	43	38	39
17	---	---	---	41	39	40	40	36	37	40	38	39
18	---	---	---	42	39	40	39	37	38	39	36	37
19	---	---	---	41	39	39	39	37	38	38	36	37
20	---	---	---	41	40	40	40	37	38	38	35	37
21	---	---	---	41	39	40	39	37	38	37	33	34
22	---	---	---	39	38	39	39	36	37	36	33	34
23	---	---	---	41	39	39	38	36	37	35	33	34
24	---	---	---	41	39	40	37	36	37	36	33	34
25	---	---	---	42	39	40	39	37	38	35	33	33
26	---	---	---	41	40	40	39	38	39	34	32	33
27	---	---	---	42	40	41	40	38	39	35	33	34
28	---	---	---	42	41	41	41	39	40	35	33	34
29	---	---	---	42	41	41	41	40	41	34	33	33
30	---	---	---	42	41	41	42	41	41	33	33	33
31	---	---	---	42	41	41	42	40	41	---	---	---
MONTH	---	---	---	42	34	40	43	35	38	43	32	38
PERIOD	59	32	39									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	13.5	14.5	7.5	6.5	7.0	1.5	0.5	1.0	0.5	0.0	0.5
2	15.0	13.5	14.0	6.5	5.5	6.0	1.5	1.0	1.0	0.5	0.0	0.5
3	14.5	13.5	14.5	6.0	6.0	6.0	1.0	0.0	1.0	0.5	0.0	0.5
4	14.5	13.5	14.0	6.0	5.5	6.0	1.5	0.5	1.0	0.5	0.0	0.5
5	14.5	13.5	14.0	6.0	5.5	5.5	1.5	0.5	1.0	0.5	0.0	0.5
6	14.0	13.5	14.0	6.0	5.5	6.0	1.0	0.5	1.0	0.5	0.5	0.5
7	14.0	13.5	13.5	6.0	5.5	5.5	1.0	1.0	1.0	0.5	0.5	0.5
8	14.0	13.5	14.0	5.5	5.5	5.5	1.0	0.5	1.0	0.5	0.5	0.5
9	14.0	13.5	13.5	5.5	5.0	5.0	0.5	0.0	0.5	0.5	0.5	0.5
10	14.0	11.5	13.5	5.0	5.0	5.0	1.0	0.0	0.5	0.5	0.5	0.5
11	13.5	10.0	12.5	5.0	4.5	4.5	1.0	0.5	1.0	0.5	0.5	0.5
12	13.5	10.5	12.0	4.5	4.0	4.0	1.0	0.5	1.0	0.5	0.5	0.5
13	12.5	11.0	12.0	4.0	3.5	4.0	1.0	0.5	0.5	0.5	0.5	0.5
14	12.5	11.5	12.0	4.0	3.5	4.0	0.5	0.0	0.5	0.5	0.5	0.5
15	12.5	10.0	11.5	3.5	3.0	3.5	1.0	0.5	0.5	0.5	0.5	0.5
16	12.0	11.0	11.5	3.0	3.0	3.0	1.0	0.5	0.5	0.5	0.5	0.5
17	11.5	10.0	11.0	3.0	2.5	3.0	0.5	0.5	0.5	0.5	0.5	0.5
18	11.5	10.0	11.0	3.0	2.5	2.5	0.5	0.0	0.5	0.5	0.5	0.5
19	11.0	9.0	10.5	2.5	2.0	2.5	0.5	0.0	0.5	0.5	0.5	0.5
20	10.5	9.5	10.0	2.5	2.0	2.0	0.5	0.0	0.5	0.5	0.5	0.5
21	10.0	8.0	9.5	2.5	2.0	2.5	0.5	0.0	0.5	0.5	0.5	0.5
22	10.0	9.5	10.0	2.5	2.0	2.0	0.5	0.0	0.5	0.5	0.5	0.5
23	10.0	9.5	10.0	2.5	2.0	2.0	0.5	0.0	0.5	0.5	0.5	0.5
24	9.5	9.0	9.5	2.5	2.0	2.0	0.5	0.0	0.5	0.5	0.5	0.5
25	9.0	8.5	9.0	2.0	2.0	2.0	0.5	0.0	0.5	0.5	0.5	0.5
26	9.0	8.5	8.5	2.0	1.5	2.0	0.5	0.0	0.5	0.5	0.5	0.5
27	8.5	8.0	8.5	2.0	2.0	2.0	0.5	0.0	0.5	0.5	0.0	0.0
28	8.0	8.0	8.0	2.0	2.0	2.0	0.5	0.0	0.5	0.0	0.0	0.0
29	8.0	7.5	7.5	2.0	1.5	1.5	0.5	0.0	0.5	0.0	0.0	0.0
30	7.5	7.0	7.5	1.5	0.5	1.0	0.5	0.0	0.5	0.0	0.0	0.0
31	7.0	6.5	7.0	---	---	---	0.5	0.0	0.5	0.0	0.0	0.0
MONTH	15.0	6.5	11.0	7.5	0.5	3.5	1.5	0.0	0.5	0.5	0.0	0.5

01046500 KENNEBEC RIVER AT BINGHAM, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	3.5	2.5	3.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	3.0	3.0	3.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	4.5	3.0	4.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	4.5	4.0	4.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	4.5	4.0	4.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	4.0	4.0	4.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	5.0	4.0	4.5
8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	5.5	5.0	5.5
9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	7.5	5.5	6.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	7.5	5.5	6.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	7.5	7.0	7.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5	7.5	6.5	7.0
13	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5	8.0	6.5	7.0
14	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5	7.5	6.0	7.0
15	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	1.0	7.5	7.0	7.0
16	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0	1.0	9.5	7.0	8.0
17	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0	1.5	8.0	7.5	8.0
18	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0	1.5	9.5	8.0	8.5
19	0.0	0.0	0.0	0.5	0.0	0.0	1.5	1.0	1.5	9.5	7.5	8.0
20	0.0	0.0	0.0	0.5	0.0	0.0	2.0	1.5	1.5	10.0	7.5	8.0
21	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	2.0	11.0	8.5	9.0
22	0.0	0.0	0.0	0.5	0.0	0.0	2.0	1.5	2.0	10.0	8.5	9.5
23	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.0	11.0	9.0	10.0
24	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.5	10.5	9.0	10.0
25	0.0	0.0	0.0	0.5	0.0	0.0	3.0	2.5	2.5	12.0	9.0	10.5
26	0.0	0.0	0.0	0.5	0.0	0.0	3.0	2.5	3.0	15.5	12.0	13.5
27	0.0	0.0	0.0	0.5	0.0	0.0	3.5	3.0	3.0	14.5	12.5	13.0
28	0.0	0.0	0.0	0.5	0.0	0.5	3.5	3.0	3.0	12.5	10.5	11.5
29	---	---	---	0.5	0.0	0.0	3.5	3.0	3.0	13.0	11.0	12.0
30	---	---	---	0.5	0.0	0.0	3.0	2.5	3.0	12.0	11.0	11.5
31	---	---	---	0.5	0.0	0.0	---	---	---	13.0	11.0	12.0
MONTH	0.0	0.0	0.0	0.5	0.0	0.0	3.5	0.0	1.5	15.5	2.5	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.0	10.5	11.5	16.5	16.0	16.0	18.5	17.5	17.5	16.0	15.5	16.0
2	12.5	11.0	11.5	17.5	16.5	17.0	19.0	17.5	18.0	17.0	16.0	16.5
3	14.0	12.0	13.0	18.0	17.0	17.5	19.0	18.0	18.5	17.0	16.5	17.0
4	14.0	12.5	13.5	17.0	16.5	16.5	19.0	18.0	18.5	17.0	15.5	16.0
5	13.5	12.0	13.0	18.5	16.0	17.5	19.0	18.5	18.5	15.5	15.0	15.5
6	13.5	12.5	13.0	18.0	16.5	17.5	19.0	18.5	19.0	16.5	15.0	15.5
7	13.0	12.0	12.5	17.5	16.5	17.0	19.5	18.5	19.0	16.0	14.5	15.5
8	13.5	12.5	13.0	17.0	16.0	16.5	19.0	18.5	19.0	16.0	14.0	15.0
9	13.0	12.0	12.5	17.0	16.0	16.5	20.5	19.0	19.5	14.5	13.5	14.0
10	13.0	12.5	13.0	18.0	16.5	17.0	19.5	19.0	19.5	14.0	13.0	13.5
11	14.5	13.0	13.5	17.5	16.5	17.0	19.0	18.5	19.0	14.0	13.0	13.5
12	14.5	12.5	13.5	17.0	16.5	16.5	19.0	18.5	19.0	13.5	12.5	13.0
13	14.5	13.0	13.5	17.0	16.5	16.5	19.0	17.5	19.0	13.0	12.5	12.5
14	14.0	13.0	13.5	18.0	17.0	17.5	19.0	18.5	19.0	12.5	11.5	12.0
15	15.0	13.0	14.0	18.0	17.0	17.5	20.0	18.0	19.0	12.0	8.5	11.0
16	15.0	14.0	14.5	17.5	17.0	17.5	19.5	18.0	19.0	11.5	9.0	11.5
17	14.5	13.5	14.0	18.0	17.0	17.5	19.0	16.5	18.5	13.5	12.0	13.0
18	14.5	13.5	14.0	19.0	17.0	18.0	19.5	15.5	17.5	14.5	13.0	14.0
19	14.5	13.5	14.0	19.5	17.5	18.0	19.5	16.0	18.0	15.5	14.5	15.0
20	14.5	13.5	14.0	19.0	17.5	18.0	19.0	17.0	18.0	16.0	15.0	16.0
21	14.0	13.5	14.0	19.5	17.5	18.5	19.0	16.0	18.0	16.0	14.5	15.5
22	15.5	14.0	15.0	21.0	17.5	19.5	18.0	16.5	17.5	16.0	14.0	15.5
23	15.5	15.0	15.5	20.0	19.0	19.5	18.5	16.0	17.5	16.0	14.5	15.5
24	15.5	14.5	15.0	19.0	18.0	18.5	18.0	17.0	17.5	15.5	13.0	15.0
25	15.0	14.0	14.5	18.5	18.0	18.0	18.5	15.0	17.0	15.5	12.5	14.5
26	15.5	14.0	14.5	19.5	17.5	18.5	18.5	15.5	17.0	15.0	12.5	14.0
27	16.0	15.0	15.5	19.0	18.0	18.5	18.0	15.5	17.0	14.5	11.5	13.5
28	16.5	15.5	16.0	19.0	17.0	18.0	17.5	16.0	16.5	15.5	12.5	14.5
29	16.0	15.5	15.5	18.0	17.0	17.5	17.0	16.5	16.5	15.0	13.0	14.5
30	17.5	16.0	16.5	18.0	17.0	17.5	18.0	16.5	17.0	15.0	14.5	15.0
31	---	---	---	19.0	17.5	18.5	17.5	16.0	16.5	---	---	---
MONTH	17.5	10.5	14.0	21.0	16.0	17.5	20.5	15.0	18.0	17.0	8.5	14.5
YEAR	21.0	0.0	7.5									

01047000 CARRABASSETT RIVER NEAR NORTH ANSON, ME

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, Hydrologic Unit 01030003, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 mi^2 (917 km^2).

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

REVISED RECORDS.--WSP 851: Drainage area. WSP 1231: 1904-7, 1928(M), 1932(M), 1936(M), 1938(M), 1944(M), 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft (92.45 m) above mean sea level. November 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Some regulation at low flows by mills above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years (water years 1902-06, 1926-77), 717 ft^3/s (20.31 m^3/s), 27.51 in/yr (699 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft^3/s (872 m^3/s) Mar. 19, 1936, gage height, 21.17 ft (6.453 m); minimum, 18 ft^3/s (0.51 m^3/s) Oct. 29, 1929, gage height, 2.02 ft (0.616 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 21	1500	15000	425	14.01	4.270	Apr. 11	0100	6050	171	9.01	2.746
Mar. 15	0700	ice jam		*17.42	5.310	Sept. 27	0600	6560	186	9.34	2.847
Mar. 16	0100	*18800	532	15.85	4.831						

Minimum discharge, 80 ft^3/s (2.27 m^3/s) July 29, 30, gage height, 2.74 ft (0.835 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	1160	355	255	130	155	4910	1060	238	837	110	199
2	245	920	340	245	125	160	3090	1020	275	686	102	205
3	226	734	330	235	125	155	2590	1110	357	555	102	238
4	208	899	315	225	125	145	2550	920	456	473	90	217
5	191	1850	300	220	125	135	2040	804	443	426	108	191
6	183	1820	350	215	120	130	1670	878	565	361	170	191
7	180	1520	660	205	120	120	1400	942	704	311	145	177
8	191	1160	2240	200	120	115	1160	652	956	279	118	157
9	549	892	1600	195	120	125	1020	534	657	265	102	139
10	1740	722	1050	185	120	200	892	500	491	248	95	122
11	956	640	980	180	120	440	817	510	464	217	126	114
12	680	560	880	175	120	900	892	487	1160	205	150	106
13	544	478	770	170	125	2200	1690	544	1090	226	160	114
14	510	394	690	165	130	5000	3470	580	704	255	160	491
15	602	386	630	165	135	15000	2600	491	591	220	333	728
16	505	378	590	160	140	17200	2040	456	482	191	229	473
17	434	374	550	155	140	13900	2350	487	418	172	1350	374
18	390	386	510	155	140	11700	2840	640	722	157	1250	341
19	353	394	480	150	135	10100	2890	539	710	141	784	322
20	333	390	450	150	135	9000	2760	464	857	130	565	285
21	7940	357	425	145	130	7620	2990	426	1430	120	570	330
22	5160	361	400	145	125	5680	3670	398	3450	112	534	469
23	2620	341	380	140	125	3930	3340	386	3010	98	680	414
24	1720	345	365	140	120	3020	2540	345	1750	91	624	361
25	1340	330	345	135	120	1870	2770	303	1210	93	734	406
26	1260	296	330	135	125	963	2300	279	3070	104	635	456
27	1020	330	315	135	130	791	1870	248	2440	106	482	3930
28	810	370	300	130	140	1020	1640	226	1560	93	390	2430
29	704	418	285	130	---	1420	1470	382	1110	83	361	2940
30	640	378	275	130	---	2040	1220	361	1070	83	330	2370
31	646	---	265	130	---	4630	---	285	---	100	289	---
TOTAL	33152	19583	17755	5300	3565	119864	67481	17257	32440	7438	11878	19290
MEAN	1069	653	573	171	127	3867	2249	557	1081	240	383	643
MAX	7940	1850	2240	255	140	17200	4910	1110	3450	837	1350	3930
MIN	180	296	265	130	120	115	817	226	238	83	90	106
CFSM	3.02	1.85	1.62	.48	.36	10.9	6.35	1.57	3.05	.68	1.08	1.82
IN.	3.48	2.06	1.87	.56	.37	12.60	7.09	1.81	3.41	.78	1.25	2.03

CAL YR 1976 TOTAL 372652 MEAN 1018 MAX 11300 MIN 149 CFSM 2.88 IN 39.16
WTR YR 1977 TOTAL 355003 MEAN 973 MAX 17200 MIN 83 CFSM 2.75 IN 37.31

01047730 WILSON STREAM AT EAST WILTON, ME

LOCATION.--Lat 44°36'55", long 70°11'42", Franklin County, Hydrologic Unit 01030003, on left bank 0.1 mi (0.2 km) upstream from railroad bridge in East Wilton, and 1.5 mi (2.4 km) downstream from Varnum Stream.

DRAINAGE AREA.--45.9 mi^2 (118.9 km^2).

PERIOD OF RECORD.--February to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Wilson Pond 3.7 mi (6.0 km) upstream. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD FEBRUARY TO SEPTEMBER 1977.--Maximum discharge, 1,340 ft^3/s (37.9 m^3/s) Mar. 14, gage height, 12.35 ft (3.764 m); minimum, 4.7 ft^3/s (0.13 m^3/s) Sept. 11, 12, gage height, 6.88 ft (2.097 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	28	834	125	14	87	7.9	8.6
2					---	33	502	111	23	69	8.7	9.5
3					---	39	578	102	22	52	8.2	9.7
4					---	38	537	86	26	40	7.5	8.3
5					---	36	382	77	33	34	7.8	8.4
6					---	34	321	80	37	25	7.6	8.5
7					---	33	267	81	54	19	7.5	49
8					---	31	213	71	64	18	7.4	53
9					---	30	175	64	47	58	6.4	12
10					13	29	146	67	38	58	6.3	7.1
11					13	30	135	66	50	55	7.5	5.4
12					13	100	160	57	95	56	7.7	34
13					14	345	278	55	68	60	7.1	13
14					15	1050	448	49	56	57	6.8	57
15					18	1180	375	42	50	55	8.4	21
16					21	901	312	39	38	54	6.1	12
17					25	607	314	38	39	52	95	12
18					26	370	321	37	50	42	23	20
19					24	276	303	33	60	17	10	15
20					21	216	276	31	101	11	9.3	22
21					19	185	254	27	257	12	8.9	65
22					18	165	245	24	352	9.9	12	51
23					16	161	260	20	314	9.6	15	45
24					15	143	355	18	208	9.7	12	41
25					15	121	451	16	143	12	12	42
26					15	112	325	16	232	13	9.1	117
27					19	130	248	15	194	11	8.7	242
28					23	185	212	15	137	9.6	9.3	108
29					---	274	181	22	109	7.9	9.5	142
30					---	455	147	16	116	7.7	9.5	94
31					---	854	---	15	---	7.6	9.0	---
TOTAL					---	8191	9555	1515	3027	1029.0	371.2	1332.5
MEAN					---	264	319	48.9	101	33.2	12.0	44.4
MAX					---	1180	834	125	352	87	95	242
MIN					---	28	135	15	14	7.6	6.1	5.4
CFSM					---	5.75	6.95	1.07	2.20	.72	.26	.97
IN.					---	6.64	7.74	1.23	2.45	.83	.30	1.08

01048000 SANDY RIVER NEAR MERCER, ME

LOCATION.--Lat 44°42'26", long 69°56'21", Somerset County, Hydrologic Unit 01030003, on right bank 0.9 mi (1.4 km) upstream from Bog Stream, 2.1 mi (3.4 km) north of Mercer, and 8.6 mi (13.8 km) upstream from mouth.

DRAINAGE AREA.--514 mi² (1,331 km²).

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft (60.08 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--49 years, 966 ft³/s (27.36 m³/s), 25.52 in/yr (648 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft³/s (1,090 m³/s) Mar. 19, 1936, gage height, 16.75 ft (5.105 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of records for stations on Kennebec River at Bingham and Waterville, Carrabassett River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft (5.758 m) Feb. 12, 1970, from floodmark (backwater from ice); minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 22-26, 1939, gage height, 2.15 ft (0.655 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 21	2400	13600	385	10.16	3.097	Apr. 1	0500	10500	297	9.09	2.771
Mar. 15	-	*26000	736	a*17.27	5.264	Apr. 14	1500	7500	212	7.98	2.432
Mar. 23	1300	6450	183	7.54	2.298	Sept. 27	1400	7430	210	7.95	2.423

a Ice jam.

Minimum discharge, 98 ft³/s (2.78 m³/s) Aug. 5, 6, gage height, 2.69 ft (0.820 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	383	1760	520	445	310	450	9150	1590	299	1030	112	173
2	335	1430	490	440	310	500	5590	1480	327	811	122	171
3	305	1130	475	430	310	495	5130	1490	433	680	113	174
4	279	1260	460	425	305	485	5910	1330	579	585	108	169
5	256	2340	450	415	305	460	4220	1170	597	523	101	157
6	243	2510	445	410	300	445	3450	1140	619	461	106	147
7	241	2300	1090	405	300	430	3000	1310	699	390	193	151
8	251	1630	4480	400	300	405	2330	1140	1170	343	157	173
9	766	1340	1840	395	300	380	1940	979	924	328	129	173
10	3350	1140	1200	390	295	390	1740	913	631	359	113	144
11	1660	1070	1000	385	295	415	1590	915	569	330	112	127
12	1040	1010	950	380	290	700	1780	850	1440	296	116	118
13	813	900	885	375	290	2000	3250	816	1540	310	134	129
14	743	837	830	370	290	6000	6310	902	954	350	138	308
15	864	822	790	365	310	20000	5010	778	721	334	232	1310
16	771	805	740	360	335	19000	3550	681	578	286	382	654
17	649	771	700	355	345	16000	3810	628	474	256	1200	418
18	575	750	670	350	340	13700	4460	605	701	237	2480	362
19	533	735	640	345	335	9100	4430	613	881	214	949	355
20	506	709	615	340	330	5530	4010	549	1270	179	552	302
21	7300	631	590	340	325	3050	3910	497	1740	155	426	356
22	8070	576	560	335	320	2230	4670	455	4130	141	405	622
23	3070	600	550	335	320	4200	4630	416	3260	130	533	511
24	2150	568	530	330	315	2660	4410	380	1880	121	597	405
25	1930	569	515	330	310	1650	5340	348	1300	122	517	347
26	2110	534	505	325	310	1490	3930	310	2530	129	562	416
27	1810	534	490	325	325	1570	2850	284	2510	127	386	5050
28	1430	596	480	320	375	2010	2430	266	1570	129	296	2520
29	1240	764	470	320	---	2740	2230	319	1150	116	248	2450
30	1110	700	460	315	---	4080	1820	489	1220	107	217	1790
31	1070	---	455	315	---	7970	---	368	---	103	194	---
TOTAL	45853	31321	24875	11370	8795	130535	116880	24011	36696	9682	11930	20182
MEAN	1479	1044	802	367	314	4211	3896	775	1223	312	385	673
MAX	8070	2510	4480	445	375	20000	9150	1590	4130	1030	2480	5050
MIN	241	534	445	315	290	380	1590	266	299	103	101	118
CFSM	2.88	2.03	1.56	.71	.61	8.19	7.58	1.51	2.38	.61	.75	1.31
IN.	3.32	2.27	1.80	.82	.64	9.45	8.46	1.74	2.66	.70	.86	1.46

CAL YR 1976 TOTAL 480524 MEAN 1313 MAX 14300 MIN 214 CFSM 2.55 IN 34.78
WTR YR 1977 TOTAL 472130 MEAN 1294 MAX 20000 MIN 101 CFSM 2.52 IN 34.17

01049000 SEBASTICOOK RIVER NEAR PITTSFIELD, ME

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, Hydrologic Unit 01030003, on right bank 1.7 mi (2.7 km) upstream from Twentyfivemile Stream and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--579 mi² (1,500 km²).

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 1271: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft (40.81 m) above mean sea level.

REMARKS.--Records good except those for winter period and period of no backwater from aquatic growth, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond, combined capacity, about 2,345,000,000 ft³ (66,410,000 m³). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--48 years (water years 1930-77), 951 ft³/s (26.93 m³/s), 22.30 in/yr (566 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft³/s (408 m³/s) Mar. 22, 1936, gage height, 13.18 ft (4.017 m); minimum daily, 4.5 ft³/s (0.13 m³/s) Nov. 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,080 ft³/s (172 m³/s) Apr. 4, gage height, 8.13 ft (2.478 m); minimum daily, 82 ft³/s (2.32 m³/s) July 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	1290	535	410	250	230	4770	2140	185	435	85	513
2	215	1180	490	405	240	240	5540	1930	211	400	90	511
3	195	1080	460	400	225	240	5940	1690	265	375	87	504
4	180	1050	440	395	220	240	6070	1390	328	365	85	481
5	170	1290	425	390	215	250	6010	871	423	340	95	462
6	160	1410	480	385	210	260	5830	688	485	310	135	450
7	155	1430	1130	380	210	260	5460	665	514	280	115	437
8	155	1440	1240	380	205	250	4980	623	550	255	100	481
9	229	1480	1170	380	200	240	4430	588	518	245	93	500
10	540	1400	1050	390	200	250	3910	724	481	230	90	492
11	753	1290	950	420	200	280	3450	883	474	215	93	481
12	864	1180	870	465	195	350	3050	853	488	205	90	467
13	926	1080	790	460	205	470	2820	610	534	200	88	467
14	899	988	730	450	220	1140	2820	472	521	200	88	672
15	872	932	670	435	225	4140	2970	425	491	195	165	814
16	787	880	630	415	225	5020	3100	402	455	190	235	799
17	718	773	600	405	220	5440	3120	387	426	185	557	780
18	654	693	570	385	220	5620	3200	381	523	185	1080	760
19	609	665	550	370	215	5590	3220	361	606	175	1030	724
20	554	586	530	355	215	5340	3190	350	658	160	911	665
21	886	523	520	340	215	4700	3120	335	712	145	817	644
22	1590	497	620	330	210	4210	2990	318	739	130	775	615
23	1940	486	740	320	210	3900	2820	309	736	120	736	568
24	2130	476	780	300	210	3620	2700	295	764	115	670	523
25	2180	468	700	290	210	3390	2740	285	721	120	616	512
26	2160	467	520	285	215	3140	2800	260	590	105	573	533
27	2040	474	500	270	200	2920	2800	230	562	89	643	1350
28	1840	541	480	275	220	2840	2670	214	526	83	645	1890
29	1640	575	460	280	---	2970	2510	227	490	82	612	2070
30	1470	739	440	270	---	3240	2330	218	465	82	582	2090
31	1330	---	430	260	---	3860	---	204	---	85	547	---
TOTAL	29082	27363	20500	11295	6005	74640	111360	19328	15441	6301	12528	22255
MEAN	938	912	661	364	214	2408	3712	623	515	203	404	742
MAX	2180	1480	1240	465	250	5620	6070	2140	764	435	1080	2090
MIN	155	467	425	260	195	230	2330	204	185	82	85	437

CAL YR 1976 TOTAL 474099 MEAN 1295 MAX 9120 MIN 100
WTR YR 1977 TOTAL 356098 MEAN 976 MAX 6070 MIN 82

NOTE.--Stage-discharge relation affected by aquatic growtn on control June 29 to Aug. 16.

01049300 NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, Hydrologic Unit 01030003, on right bank 28 ft (8.5 m) upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft (550 m) upstream from mouth, and 1.8 mi (2.9 km) north of Manchester.

DRAINAGE AREA.--0.93 mi² (2.41 km²).

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64.0 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years (water years 1965-77), 2.04 ft³/s (0.0578 m³/s), 29.79 in/yr (757 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 17, 1973; minimum, 0.05 ft³/s (0.001 m³/s) Aug. 21, 1970, Aug. 2, 16, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft³/s (0.85 m³/s) and maximums (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft³/s)	(m³/s)	(ft)	(m)			(ft³/s)	(m³/s)	(ft)	(m)
Oct. 21	0715	60	1.70	5.03	1.533	Mar. 31	1600	32	0.91	4.67	1.423
Mar. 14	1015	*95	2.69	*5.36	1.634						

Minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	3.0	.70	.53	.46	1.0	11	1.6	.64	.51	.12	.14
2	.38	1.3	.66	.52	.45	.84	5.5	1.6	1.2	.40	.20	.13
3	.33	1.0	.64	.51	.44	.77	14	1.4	1.1	.31	.16	.12
4	.33	2.6	.62	.50	.43	.74	7.4	1.3	1.3	.30	.14	.11
5	.33	2.8	.62	.49	.43	1.2	7.0	1.2	1.6	.27	.14	.11
6	.33	1.7	.62	.49	.42	1.0	6.0	1.3	1.5	.22	.20	.11
7	.33	1.4	3.0	.48	.42	.89	5.0	1.3	1.8	.20	.18	.10
8	.33	1.0	8.2	.48	.42	.83	4.0	1.1	1.8	.20	.16	.10
9	2.4	.86	2.8	.48	.43	1.1	3.3	1.0	1.1	.25	.14	.10
10	3.3	.86	1.8	.53	.46	1.4	3.0	4.1	.85	.24	.13	.09
11	.96	.86	1.5	.52	.49	2.7	2.9	3.7	1.2	.21	.13	.08
12	.69	.80	1.1	.50	.54	7.1	3.3	1.9	2.1	.18	.14	.07
13	.55	.70	.92	.48	.58	7.8	3.9	1.5	1.4	.23	.14	.06
14	.52	.70	.78	.47	.62	54	6.1	1.2	.82	.49	.15	1.0
15	.54	.70	.77	.47	.62	39	4.5	1.1	.72	.34	.23	3.8
16	.62	.70	.80	.46	.59	23	3.8	1.0	.63	.21	.50	1.0
17	.52	.70	.88	.45	.55	17	2.8	1.0	.69	.18	1.2	.56
18	.45	.70	.92	.45	.53	12	2.2	.94	.87	.18	1.0	.80
19	.42	.70	.87	.45	.51	7.2	2.0	.80	.96	.16	.66	.56
20	.42	.66	.81	.44	.50	5.7	1.8	.68	.97	.15	.40	.40
21	19	.66	.76	.44	.49	4.7	1.6	.61	1.8	.15	.31	1.5
22	3.3	.58	.72	.44	.47	4.0	1.9	.59	3.5	.16	.28	2.3
23	1.6	.54	.69	.44	.46	3.6	3.8	.61	2.7	.14	.56	1.4
24	1.2	.62	.66	.43	.48	3.3	9.2	.66	1.5	.14	.45	.97
25	1.9	.62	.64	.43	.50	3.1	7.5	.47	1.0	.16	.37	.70
26	1.9	.58	.61	.43	.54	3.6	3.8	.37	.72	.20	.31	2.5
27	1.2	.62	.59	.43	.59	5.2	3.0	.59	.67	.16	.25	11
28	.80	.66	.58	.45	.62	9.0	2.8	.58	.57	.16	.21	5.7
29	.80	1.4	.56	.47	---	14	2.2	.93	.53	.14	.18	3.9
30	.75	1.2	.54	.48	---	18	1.9	.77	.60	.12	.17	2.6
31	2.3	---	.54	.47	---	24	---	.76	---	.14	.16	---
TOTAL	48.92	31.22	35.90	14.61	14.04	277.77	137.2	36.66	36.84	6.90	9.37	42.01
MEAN	1.58	1.04	1.16	.47	.50	8.96	4.57	1.18	1.23	.22	.30	1.40
MAX	19	3.0	8.2	.53	.62	54	14	4.1	3.5	.51	1.2	11
MIN	.33	.54	.54	.43	.42	.74	1.6	.37	.53	.12	.12	.06
CFSM	1.70	1.12	1.25	.51	.54	9.63	4.91	1.27	1.32	.24	.32	1.51
IN.	1.95	1.25	1.43	.58	.56	11.10	5.48	1.46	1.47	.28	.37	1.68

CAL YR 1976 TOTAL 787.51 MEAN 2.15 MAX 29 MIN .18 CFSM 2.31 IN 31.50
WTR YR 1977 TOTAL 691.44 MEAN 1.89 MAX 54 MIN .06 CFSM 2.03 IN 27.63

NOTE.--No gage-height record Aug. 8 to Sept. 30.

01049400 COBBOSSEECONTEE LAKE AT EAST WINTHROP, ME

LOCATION.--Lat 44°18'57", long 69°53'48", Kennebec County, Hydrologic Unit 01030003, in Augusta Water District pumping station on Welch Point, on town road at East Winthrop.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--September 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (corrected).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 168.20 ft (51.267 m) Apr. 4, 5, 1976; minimum, 162.90 ft (49.652 m) Nov. 5, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 167.50 ft (51.054 m) June 30; minimum, 163.25 ft (49.759 m) Oct. 20.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165.06	164.13	164.00	164.51	164.28	164.14	167.15	167.11	166.92	167.48	167.40	167.19
2	164.88	164.18	164.01	164.50	164.27	164.14	167.15	167.21	166.96	167.47	167.41	167.12
3	164.72	164.21	164.02	164.48	164.24	164.15	167.22	167.25	166.99	167.45	167.40	167.10
4	164.55	164.28	164.00	164.47	164.23	164.16	167.27	167.29	167.02	167.43	167.39	167.08
5	164.39	164.37	163.99	164.45	164.21	164.24	167.27	167.32	167.07	167.43	167.39	167.06
6	164.23	164.43	163.98	164.43	164.20	164.27	167.29	167.32	167.12	167.42	167.39	167.04
7	164.09	164.47	164.06	164.42	164.18	164.29	167.25	167.29	167.17	167.41	167.39	167.00
8	163.93	164.49	164.26	164.47	164.16	164.31	167.20	167.24	167.21	167.41	167.36	166.96
9	163.85	164.53	164.31	164.44	164.14	164.33	167.13	167.17	167.23	167.42	167.37	166.92
10	163.81	164.55	164.32	164.50	164.11	164.37	167.01	167.16	167.23	167.42	167.36	166.88
11	163.68	164.59	164.33	164.58	164.09	164.43	166.88	167.15	167.25	167.42	167.37	166.84
12	163.59	164.61	164.32	164.56	164.07	164.52	166.74	167.10	167.32	167.43	167.34	166.79
13	163.53	164.63	164.34	164.54	164.09	164.64	166.61	167.07	167.37	167.46	167.31	166.77
14	163.49	164.65	164.33	164.52	164.14	165.24	166.54	167.04	167.39	167.47	167.28	166.87
15	163.44	164.67	164.32	164.50	164.14	166.11	166.50	167.02	167.41	167.48	167.28	166.85
16	163.39	164.69	164.32	164.49	164.12	166.61	166.52	167.01	167.42	167.47	167.25	166.78
17	163.33	164.71	164.35	164.48	164.11	166.97	166.58	167.01	167.43	167.48	167.35	166.69
18	163.31	164.73	164.37	164.46	164.09	167.22	166.66	166.99	167.40	167.47	167.36	166.63
19	163.29	164.75	164.36	164.43	164.08	167.37	166.73	166.96	167.38	167.47	167.35	166.54
20	163.28	164.76	164.36	164.41	164.08	167.41	166.81	166.93	167.36	167.46	167.33	166.42
21	163.61	164.67	164.41	164.39	164.09	167.41	166.87	166.92	167.38	167.46	167.30	166.41
22	163.77	164.51	164.41	164.37	164.08	167.38	166.93	166.93	167.42	167.45	167.31	166.38
23	163.80	164.35	164.41	164.35	164.06	167.40	167.03	166.93	167.45	167.43	167.34	166.31
24	163.82	164.20	164.42	164.33	164.03	167.34	167.12	166.93	167.46	167.42	167.32	166.25
25	163.87	164.10	164.42	164.32	164.10	167.25	167.15	166.94	167.47	167.41	167.32	166.20
26	163.91	164.00	164.44	164.32	164.12	167.12	167.11	166.92	167.47	167.40	167.30	166.21
27	163.94	163.91	164.47	164.30	164.11	167.00	167.04	166.85	167.48	167.38	167.28	166.34
28	163.97	163.91	164.47	164.29	164.14	166.90	167.04	166.86	167.48	167.37	167.26	166.35
29	163.98	163.94	164.48	164.34	---	166.88	167.05	166.90	167.48	167.35	167.24	166.32
30	164.00	163.97	164.50	164.32	---	166.89	167.05	166.91	167.49	167.33	167.22	166.28
31	164.05	---	164.50	164.30	---	167.01	---	166.91	---	167.32	167.20	---
MEAN	163.89	164.40	164.30	164.43	164.13	165.85	166.96	167.05	167.31	167.43	167.33	166.69
MAX	165.06	164.76	164.50	164.58	164.28	167.41	167.29	167.32	167.49	167.48	167.41	167.19
MIN	163.28	163.91	163.98	164.29	164.03	164.14	166.50	166.85	166.92	167.32	167.20	166.20

CAL YR 1976 MEAN 165.93 MAX 168.20 MIN 163.28
WTR YR 1977 MEAN 165.82 MAX 167.49 MIN 163.28

01049500 COBBOSSEECONTEE STREAM AT GARDINER, ME

LOCATION.--Lat 44°13'44", long 69°46'44", Kennebec County, Hydrologic Unit 01030003, on left bank 0.8 mi (1.3 km) downstream from Gardiner Water District dam, 300 ft (91 m) upstream from Winter Street Bridge in Gardiner and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--June 1890 to September 1964, October 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 20.00 ft (6.096 m) above mean sea level. June 16, 1890 to Sept. 30, 1964, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS.--Records fair. Flow regulated by Cobbosseecontee Lake (station 01049400) and several other lakes upstream.

AVERAGE DISCHARGE.--75 years (water years 1891-1964, 1977), 339 ft³/s (9.60 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,020 ft³/s (142 m³/s) Mar. 21, 1936; minimum, leakage only when all gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,560 ft³/s (101 m³/s) Mar. 15, gage height, 6.60 ft (2.012 m); minimum daily, 38 ft³/s (1.08 m³/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	354	270	120	187	497	2430	505	44	51	72	68
2	720	345	255	118	191	513	2340	410	47	52	76	68
3	720	265	240	120	183	573	2300	378	46	51	59	69
4	715	145	230	132	176	420	2330	342	46	51	60	69
5	710	135	220	140	178	323	2250	256	46	54	61	68
6	690	134	215	146	179	326	2240	178	46	69	61	66
7	665	134	240	153	195	328	2140	191	43	62	55	77
8	663	140	255	172	197	328	2010	205	41	64	54	70
9	673	132	260	174	191	331	1950	211	45	64	57	68
10	668	155	255	183	193	342	1820	254	40	64	73	69
11	668	225	240	209	199	400	1700	427	43	64	59	70
12	663	220	225	248	195	592	1590	605	43	61	62	70
13	501	195	210	299	195	771	1380	569	47	67	61	76
14	307	191	200	270	205	1810	1190	538	46	38	60	151
15	155	191	185	260	222	3450	1140	485	64	59	60	317
16	142	270	180	244	235	3430	1020	441	62	60	61	337
17	158	244	170	226	235	3350	831	404	57	60	66	323
18	150	220	165	233	244	3140	239	254	46	72	62	323
19	150	214	160	228	242	2870	140	320	43	67	63	312
20	153	218	155	220	248	2550	128	284	45	68	63	302
21	190	340	150	199	258	2360	135	218	50	72	63	354
22	260	505	145	197	260	2220	137	151	51	73	63	427
23	290	513	140	193	256	2140	140	142	51	67	78	410
24	290	497	140	191	248	2030	153	143	51	63	68	378
25	300	474	135	187	265	1990	226	143	51	63	67	342
26	310	455	135	191	282	1900	351	140	51	61	67	348
27	365	420	130	185	289	1860	582	140	53	59	66	459
28	360	390	130	176	388	1800	744	92	54	55	66	485
29	366	370	125	187	---	1670	668	50	52	63	78	489
30	363	280	125	191	---	1870	592	49	52	69	66	481
31	354	---	125	185	---	2220	---	45	---	60	65	---
TOTAL	13449	8371	5810	5977	6336	48404	34896	8570	1456	1903	1992	7146
MEAN	434	279	187	193	226	1561	1163	276	48.5	61.4	64.3	238
MAX	730	513	270	299	388	3450	2430	605	64	73	78	489
MIN	142	132	125	118	176	323	128	45	40	38	54	66

WTR YR 1977 TOTAL 144310 MEAN 395 MAX 3450 MIN 38

NOTE --No gage-height record Nov. 28 to Dec. 31.

Reservoirs in Kennebec River basin

01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000 ft^3 (242,400,000 m^3) between elevations 1,043.0 ft (317.91 m) and 1,073.0 ft (327.05 m). Elevation record furnished by Kennebec Water Power Co.

01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 ft^3 (26,560,000 m^3) between gage heights 1.0 ft (0.30 m) and 8.0 ft (2.44 m). Gage-height record furnished by Kennebec Water Power Co.

01040500 MOOSEHEAD LAKE on Kennebec River (see p.).

01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi (21 km) downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 ft^3 (23,510,000 m^3) in normal operating range between elevations 950.0 ft (289.56 m) and 955.0 ft (291.08 m); total capacity of pond, 3,150,000,000 ft^3 (89,210,000 m^3) below elevation 955.0 ft (291.08 m). Elevation record furnished by Central Maine Power Co.

01042000 MOXIE POND on Moxie Stream, 4.8 mi (7.7 km) east of The Forks, Maine, used for power, has usable capacity of 640,000,000 ft^3 (18,120,000 m^3) between gage heights 6.0 ft (1.83 m) and 14.0 ft (4.27 m). Gage-height record furnished by Kennebec Water Power Co.

01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi (1.3 km) upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 ft^3 (341,300,000 m^3) between elevations 1,110.0 ft (338.33 m) and 1,146.0 ft (349.30 m). Elevation record furnished by Kennebec Water Power Co.

01045500 WYMAN POND on Kennebec River, 1.5 mi (2.4 km) upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 ft^3 (74,480,000 m^3) in normal operating range between elevations 465.0 ft (141.73 m) and 485.0 ft (147.83 m); total capacity of pond, 9,080,000,000 ft^3 (257,100,000 m^3) below elevation 485.0 ft (147.83 m). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1976	8479	705	3024	532	11414	8960
OCT. 31	9238	870	3294	712	12377	9040
NOV. 30	9066	801	3006	568	11808	9040
DEC. 31	8075	0	2902	0	9090	8870
JAN. 31, 1977	6268	0	2749	0	5595	8820
FEB. 28	3229	0	3042	0	4230	8720
MAR. 31	1707	0	3186	0	7924	9020
APR. 30	9109	938	3330	685	12050	9120
MAY 31	9066	938	3294	694	11337	9060
JUNE 30	9152	938	3168	712	12050	9110
JULY 31	8770	801	3258	640	10505	8930
AUG. 31	8728	691	3060	694	8956	8960
SEPT. 30	9066	530	3276	595	8495	9040

NOTE.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month.

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--Discharge: July 1941 to current year.
Water-quality records: Water year 1954.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 350 ft^3/s (9.912 m^3/s), 31.07 in/yr (789 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft^3/s (244 m^3/s) June 16, 1943, gage height, 10.66 ft (3.249 m), from rating curve extended above 4,300 ft^3/s (122 m^3/s); minimum, 6.8 ft^3/s (0.19 m^3/s) Aug. 27, 28, 1949, Sept. 1, 1952, gage height, 0.81 ft (0.247 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft^3/s (102 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 14	0300	*4230	120	*7.87	2.399						

Minimum discharge, 24 ft^3/s (0.68 m^3/s) July 30, gage height, 1.31 ft (0.399 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	662	159	115	57	54	2950	682	103	349	45	82
2	135	436	150	110	56	61	1530	886	136	256	53	168
3	123	336	145	105	56	64	1040	954	173	197	38	352
4	111	328	140	105	55	60	930	700	150	158	30	186
5	102	413	170	105	54	56	724	630	115	150	25	135
6	95	464	240	100	54	55	721	747	188	123	29	117
7	93	410	300	97	53	55	536	768	341	103	48	101
8	261	332	877	95	53	55	403	528	561	91	37	84
9	1460	270	542	92	52	54	364	416	328	98	33	73
10	1700	240	397	90	52	73	340	351	216	88	28	69
11	758	220	347	88	51	160	308	318	222	72	68	75
12	482	213	280	86	50	350	474	298	293	66	65	72
13	381	206	250	84	48	802	1180	377	330	94	51	88
14	550	202	230	83	48	1620	3610	349	278	85	63	1420
15	678	195	210	81	49	1800	1870	271	211	75	160	1540
16	493	188	198	79	49	1230	1000	245	155	61	72	579
17	381	180	181	78	51	1080	1220	241	154	54	1740	369
18	314	177	175	76	52	730	1850	267	315	61	957	310
19	276	174	165	75	53	561	2170	232	243	53	300	295
20	264	169	160	73	53	431	2330	193	397	42	173	237
21	2250	144	155	72	53	371	2800	169	330	35	133	549
22	2080	140	150	71	51	315	3370	153	414	31	121	669
23	846	135	145	69	49	277	3230	136	342	29	193	371
24	579	135	145	67	48	245	2250	120	253	27	538	274
25	493	130	140	65	49	230	1630	108	213	29	844	235
26	525	129	135	64	47	226	1260	146	1080	46	359	344
27	429	333	130	63	46	213	1070	111	947	42	213	1400
28	359	650	125	61	47	266	1010	95	466	31	155	896
29	321	430	125	60	---	464	826	314	333	26	126	660
30	309	246	120	59	---	1110	668	192	566	25	107	609
31	410	---	115	58	---	2800	---	128	---	60	93	---
TOTAL	17409	8287	6801	2526	1436	15868	43664	11125	9853	2657	6897	12359
MEAN	562	276	219	81.5	51.3	512	1455	359	328	85.7	222	412
MAX	2250	662	877	115	57	2800	3610	954	1080	349	1740	1540
MIN	93	129	115	58	46	54	308	95	103	25	25	69
CFSM	3.67	1.80	1.43	.53	.34	3.35	9.51	2.35	2.14	.56	1.45	2.69
IN.	4.23	2.01	1.65	.61	.35	3.86	10.62	2.70	2.40	.65	1.68	3.00

CAL YR 1976 TOTAL 168066 MEAN 459 MAX 4500 MIN 34 CFSM 3.00 IN 40.86
WTR YR 1977 TOTAL 138882 MEAN 380 MAX 3610 MIN 25 CFSM 2.48 IN 33.77

01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi² (2,707 km²).

PERIOD OF RECORD.--Discharge: January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."
Water-quality records: Water years 1955, 1958-59.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, (Reservoirs in Androscoggin River basin), combined usable capacity, 28,100,000,000 ft³ (796,000,000 m³), with final regulation at Errol Dam. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--72 years, 1,901 ft³/s (53.84 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,100 ft³/s (456 m³/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.
Instantaneous maximum discharge not available prior to Dec. 9, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,370 ft³/s (152 m³/s) Apr. 23, gage height, 4.99 ft (1.521 m); minimum daily, 597 ft³/s (16.9 m³/s) Apr. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2060	2350	2450	2430	2390	2220	3590	1120	1710	2480	1820	1800
2	2050	1930	2510	2420	2380	2070	4080	1130	1570	2530	1780	1820
3	2080	2040	2500	2410	2360	2070	3790	1060	1340	2570	1820	1800
4	2120	2060	2500	2390	2350	2160	3570	1320	1270	2560	1820	1810
5	2160	2060	2510	2390	2360	2110	3300	1520	1430	2450	1810	1780
6	2160	2050	2370	2410	2290	2100	2290	1440	1540	1950	1800	1770
7	2170	2060	2040	2420	2360	2100	1560	1340	1390	1940	1780	1790
8	1930	2050	1940	2420	2390	2080	1560	1330	1270	1880	1820	1840
9	1640	2150	2030	2420	2390	2090	1510	1460	1520	1730	1820	1900
10	1580	2210	2300	2410	2390	1990	1550	1530	1570	1790	1860	1910
11	1680	2210	2310	2410	2390	1680	1620	1530	1490	1900	1800	1910
12	1770	2220	2250	2440	2390	1500	1620	1560	1310	1900	1780	1930
13	1920	2250	2310	2450	2320	1510	1420	1510	1420	1840	1770	1950
14	2050	2260	2450	2450	2310	1610	2340	1580	1650	1770	1810	1570
15	2180	2260	2340	2360	2280	2280	3170	1620	1650	1780	1760	1250
16	2150	2270	2210	2310	2310	2640	3050	1650	1710	1770	1900	1420
17	2120	2060	2240	2380	2350	2880	2650	1670	1710	1780	1650	1520
18	2100	2270	2290	2480	2350	2840	2940	1660	1610	1840	2320	1490
19	2200	2270	2370	2490	2350	2470	3190	1660	1580	1910	2080	1610
20	2150	2270	2370	2450	2350	2470	3710	1670	1610	1910	1540	1750
21	1840	2270	2320	2390	2360	1890	4070	1680	1620	1900	1750	1750
22	1940	2310	2380	2370	2360	1840	4490	1720	1660	1880	1790	1700
23	1980	2300	2310	2380	2360	1780	5140	1750	2090	1860	1740	1710
24	1990	2300	2270	2370	2360	1740	5340	1750	2040	1890	1690	1760
25	2100	2330	2280	2350	2360	1210	4870	1730	1720	1910	1590	1790
26	2180	2320	2320	2330	2360	1700	3710	1720	1820	1840	1660	1790
27	2170	2310	2360	2320	2360	1790	1380	1760	2500	1870	1750	1480
28	2090	2320	2400	2350	2320	1770	597	1800	2260	1910	1760	1460
29	2180	2330	2350	2410	---	1590	713	1790	2250	1910	1780	1820
30	2280	2340	2340	2410	---	1540	901	1720	2370	1930	1820	1990
31	2490	---	2390	2410	---	2380	---	1710	---	1900	1800	---
TOTAL	63510	66430	72010	74430	65900	62100	83721	48490	50680	61080	55670	51870
MEAN	2049	2214	2323	2401	2354	2003	2791	1564	1689	1970	1796	1729
MAX	2490	2350	2510	2490	2390	2880	5340	1800	2500	2570	2320	1990
MIN	1580	1930	1940	2310	2280	1210	597	1060	1270	1730	1540	1250

CAL YR 1976 TOTAL 871420 MEAN 2381 MAX 6880 MIN 1050
WTR YR 1977 TOTAL 755891 MEAN 2071 MAX 5340 MIN 597

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River, and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,363 mi² (3,530 km²).

PERIOD OF RECORD.--Discharge: October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity, 28,100,000,000 ft³ (796,000,000 m³), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--64 years, 2,460 ft³/s (69.67 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,000 ft³/s (566 m³/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s (22.5 m³/s) Mar. 15, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,950 ft³/s (253 m³/s) Apr. 24, gage height, 7.20 ft (2.195 m); minimum daily, 1,680 ft³/s (47.6 m³/s) June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	3560	2590	2540	2620	2630	7590	1920	1920	2960	1990	2000
2	2210	2740	2760	2670	2630	2450	6890	2170	2010	2870	1940	1990
3	2200	2590	2540	2600	2610	2380	6410	2120	2210	2870	1900	2000
4	2230	2600	2530	2660	2680	2410	6040	1910	1920	2810	1930	2020
5	2240	2670	2870	2620	2630	2440	5360	2160	1680	2810	1950	1980
6	2260	2730	2810	2620	2590	2430	4940	2260	1850	2400	1950	1990
7	2270	2710	2630	2640	2580	2420	3350	2220	1940	2000	1930	1970
8	2370	2620	2640	2640	2630	2410	2780	1960	2010	2160	1940	2000
9	2620	2570	2350	2560	2630	2420	2520	1920	1860	2030	1930	1980
10	3780	2590	2480	2620	2670	2560	2340	1990	1910	1940	1970	2040
11	2800	2630	2830	2620	2580	2520	2320	2010	1940	1990	2010	2060
12	2460	2580	2600	2600	2550	2310	2550	1990	2100	2070	1960	2060
13	2310	2600	2580	2590	2530	2410	3320	1970	1960	2100	1920	2110
14	2500	2610	2510	2670	2610	3290	6410	1940	1950	2000	1980	2950
15	2820	2610	2790	2740	2600	4510	6420	1970	1990	1930	2290	3000
16	2770	2620	2640	2640	2580	5430	5370	1980	1910	1940	2060	2050
17	2610	2570	2530	2550	2590	4810	4870	2020	1990	1900	4190	2030
18	2540	2440	2540	2590	2620	4580	5100	2080	2050	1960	4760	2020
19	2480	2600	2500	2680	2640	4230	5650	2040	2000	2020	3660	1950
20	2590	2620	2710	2780	2640	3830	5880	2000	2010	2050	2410	2020
21	4580	2570	2620	2670	2660	3590	6600	1960	2040	2040	2000	2230
22	4700	2600	2520	2630	2620	2440	7230	1970	2070	2020	2100	2470
23	3510	2600	2620	2610	2640	2700	8030	2000	2130	1960	2230	2250
24	3050	2560	2520	2620	2650	2380	8730	2000	2570	1970	2130	2120
25	2880	2610	2500	2660	2650	2330	8410	1980	2140	2040	2550	2110
26	3010	2590	2550	2620	2640	1800	7010	1960	2590	2020	2170	2170
27	2970	2620	2550	2580	2660	2200	4870	1910	3540	1960	2090	3200
28	2810	2810	2460	2550	2690	2430	2460	1920	3090	1990	2050	2650
29	2590	2880	2640	2610	---	2660	1990	2210	2750	2030	2030	2440
30	2750	2690	2540	2600	---	3200	1890	2100	2920	2050	2040	2530
31	2820	---	2480	2610	---	5660	---	1990	---	2050	2000	---
TOTAL	85470	79790	80430	81390	73420	93860	153330	62630	65050	66940	70060	66390
MEAN	2773	2660	2595	2625	2622	3028	5111	2020	2168	2159	2260	2213
MAX	4700	3560	2870	2780	2690	5660	8730	2260	3540	2960	4760	3200
MIN	2200	2440	2350	2540	2530	1800	1890	1910	1680	1900	1900	1950

CAL YR 1976 TOTAL 1122300 MEAN 3066 MAX 9980 MIN 1850
WTR YR 1977 TOTAL 979260 MEAN 2683 MAX 8730 MIN 1680

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01054200 WILD RIVER AT GILEAD, ME
(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, Hydrologic Unit 01040002, on left bank 20 ft (6 m) upstream from highway bridge on U.S. Route 2, 1,800 ft (550 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 mi² (180 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft (208.209 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--13 years, 178 ft³/s (5.041 m³/s), 34.78 in/yr (883 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 3, 1966, gage height, 12.49 ft (3.807 m); minimum, 7.6 ft³/s (0.22 m³/s) July 16, 1971, gage height, 1.89 ft (0.576 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 24, 1959 reached a stage of 15.6 ft (4.755 m), from floodmarks, discharge, 18,100 ft³/s (513 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 21	unknown	*10200	289	*a11.29	3.441	Apr. 14	0315	2330	66.0	6.02	1.835
Mar. 14	-	5000	142	ice jam		Sept. 26	2315	2180	61.7	5.88	1.792
Mar. 31	1745	1920	54.4	5.63	1.716						

a From floodmarks.

Minimum discharge, 8.9 ft³/s (0.25 m³/s) Sept. 8-13, gage height, 1.95 ft (0.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	336	62	59	41	40	855	274	62	67	12	14
2	47	186	59	58	40	39	425	325	80	52	12	14
3	44	153	57	57	40	38	733	328	100	42	12	14
4	40	181	54	56	39	37	586	250	86	38	12	13
5	38	224	70	55	39	36	390	234	74	37	12	12
6	37	411	100	54	39	35	336	274	64	33	12	12
7	37	253	600	53	38	34	260	288	130	30	19	12
8	38	189	400	53	38	33	213	218	205	29	21	11
9	648	150	300	52	38	75	193	193	150	38	17	8.9
10	696	141	210	51	38	180	184	220	120	35	15	8.9
11	235	126	170	51	39	420	166	250	88	29	23	8.9
12	162	108	135	50	41	950	348	200	180	28	27	8.9
13	135	112	110	49	42	1500	714	175	155	33	26	9.6
14	132	103	92	49	43	3800	1470	160	120	42	23	187
15	130	99	85	48	42	1100	591	155	98	32	35	101
16	122	94	83	48	40	677	442	145	70	26	28	44
17	108	87	80	47	39	476	555	135	80	21	220	34
18	95	86	79	47	38	299	683	130	97	21	80	50
19	100	84	77	46	37	240	702	120	89	20	32	46
20	120	82	75	46	36	218	665	115	82	18	27	33
21	6000	68	73	45	35	184	877	110	74	16	23	116
22	800	80	72	45	34	155	976	105	86	31	22	134
23	350	72	70	44	33	160	999	98	75	24	46	63
24	260	66	68	44	33	147	884	94	62	19	31	48
25	220	65	67	43	34	132	665	90	55	18	30	47
26	200	74	65	43	35	121	480	81	86	18	25	375
27	180	70	64	42	37	118	437	68	144	18	22	671
28	160	110	63	42	39	163	429	62	81	14	19	178
29	146	107	62	42	---	360	364	158	60	14	16	247
30	135	76	61	41	---	1030	288	112	112	12	16	169
31	247	---	60	41	---	1700	---	85	---	12	13	---
TOTAL	11714	3993	3623	1501	1067	14497	16910	5252	2965	867	928	2690.2
MEAN	378	133	117	48.4	38.1	468	564	169	98.8	28.0	29.9	89.7
MAX	6000	411	600	59	43	3800	1470	328	205	67	220	671
MIN	37	65	54	41	33	33	166	62	55	12	12	8.9
CFSM	5.44	1.91	1.68	.70	.55	6.73	8.12	2.43	1.42	.40	.43	1.29
IN.	6.27	2.14	1.94	.80	.57	7.76	9.05	2.81	1.59	.46	.50	1.44

CAL YR 1976 TOTAL 79629.0 MEAN 218 MAX 6000 MIN 26 CFSM 3.14 IN 42.62
WTR YR 1977 TOTAL 66007.2 MEAN 181 MAX 6000 MIN 8.9 CFSM 2.60 IN 35.33

01054200 WILD RIVER AT GILEAD, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1964 to current year.

INSTRUMENTATION.--Temperature recorder.

REMARKS.--Interruptions in the record were due to malfunctions of the recorder.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C Aug. 4; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM .7UM-MF (COL./ 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT												
28...	1300	172	24	6.6	2.0	13.3	96	--	--	--	--	--
DEC												
02...	1300	59	25	6.5	.5	14.0	97	44	<1	<1	10	0
20...	0915	75	30	6.5	.0	13.0	89	--	--	--	--	--
JAN												
25...	1145	43	35	6.5	.0	12.0	82	15	<1	--	5	0
FEB												
24...	1045	33	30	6.8	.0	13.0	89	--	--	--	--	--
MAR												
28...	1000	150	24	6.8	1.0	13.0	92	15	B1	B1	2	0
MAY												
24...	1300	94	--	6.5	21.0	8.1	90	88	9	B2	--	--
JUN												
20...	1215	73	20	6.2	17.0	9.1	94	--	--	--	--	--
AUG												
04...	1215	8.8	21	7.2	23.0	8.1	93	380	B4	>200	7	0
29...	0945	17	24	6.8	21.0	8.2	91	--	--	--	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	2.4	.9	1.1	19	.2	.3	4.5	1.9	.1	7.6	14
20...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	1.5	.4	2.3	46	.4	.4	6.3	2.5	.1	7.5	16
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	.5	.2	1.0	47	.3	.3	4.6	1.0	.1	5.2	16
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	1.8	.5	1.6	33	.3	.5	3.4	.4	.0	7.2	12
29...	--	--	--	--	--	--	--	--	--	--	--

01054200 WILD RIVER AT GILEAD, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
DEC											
02...	0	11	7.1	23	26	3.66	.01	.02	--	--	--
JAN											
25...	0	13	8.1	23	29	2.67	.07	.02	--	--	--
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	0	13	4.1	18	21	7.29	.06	.02	0	0	1
MAY											
24...	0	--	--	--	--	--	--	--	1	0	0
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	0	10	1.2	17	21	.40	.00	.00	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)
DEC										
02...	--	--	--	--	--	--	--	--	--	5
JAN										
25...	--	--	--	--	--	--	--	--	--	7
FEB										
24...	--	--	--	--	--	--	--	--	--	3
MAR										
28...	0	120	24	0	<.5	0	0	0	.00	2
MAY										
24...	0	180	28	20	.0	0	0	10	.00	--
JUN										
20...	--	--	--	--	--	--	--	--	--	9
AUG										
04...	--	--	--	--	--	--	--	--	--	6
29...	--	--	--	--	--	--	--	--	--	8

01054200 WILD RIVER AT GILEAD, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.0	9.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11.0	9.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	12.0	9.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11.5	8.5	2.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5	11.0	8.5	3.5	3.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6	13.5	10.0	3.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	14.0	12.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	13.0	12.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	13.0	11.0	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
10	11.0	8.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	8.0	6.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	7.0	5.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	8.0	6.5	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
15	6.5	4.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0
16	7.0	6.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
17	6.5	5.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
18	5.5	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
19	3.5	1.5	2.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0
20	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.5	0.0
21	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.5	0.0
22	5.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.5	0.0
23	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
24	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
25	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	0.0
26	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.5
27	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.5
28	0.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.5
29	1.5	0.5	1.5	0.0	0.0	0.0	0.0	0.0	---	---	3.5	1.5
30	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	---	---	4.5	1.5
31	3.0	2.0	---	---	0.0	0.0	0.0	0.0	---	---	3.5	1.5
MONTH	14.0	0.0	3.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	4.5	0.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.5	1.0	11.0	6.0	18.5	15.0	19.5	16.5	---	---	24.0	18.0
2	2.0	1.0	10.0	8.0	16.5	15.0	20.5	15.5	---	---	21.5	20.0
3	4.5	1.5	10.0	7.0	16.0	12.0	21.0	15.5	---	---	23.0	18.5
4	3.5	0.5	11.5	6.0	15.0	11.5	20.5	16.5	25.5	18.5	21.5	15.5
5	2.0	1.0	13.0	8.0	15.5	13.0	21.5	15.5	---	---	18.0	16.0
6	4.0	1.0	12.0	10.0	15.0	13.5	22.0	15.0	---	---	20.5	16.5
7	2.0	1.0	13.0	9.5	13.5	11.5	22.0	14.5	---	---	20.0	15.0
8	1.0	1.0	11.5	8.0	13.0	10.5	---	---	---	---	19.5	13.0
9	2.0	1.0	9.0	7.0	14.5	10.0	---	---	---	---	19.0	13.5
10	3.5	1.0	8.0	7.0	14.0	12.0	---	---	---	---	18.5	14.0
11	4.0	1.0	11.0	6.5	13.0	11.5	---	---	---	---	18.0	14.0
12	6.0	1.5	12.0	8.5	12.0	11.0	---	---	21.5	20.0	15.5	11.0
13	6.5	3.0	14.5	10.5	15.0	11.0	---	---	25.0	18.0	14.0	13.0
14	4.5	3.0	13.5	9.0	15.5	13.0	---	---	23.5	19.0	13.5	12.0
15	5.0	2.0	15.0	9.0	19.0	14.0	---	---	23.0	18.0	14.5	10.5
16	7.0	2.0	13.5	10.5	18.5	13.5	---	---	22.0	17.0	13.0	11.0
17	8.0	4.0	17.0	11.0	16.0	13.5	---	---	18.0	16.0	12.0	11.5
18	8.0	3.5	16.5	14.5	17.0	13.0	---	---	19.5	15.5	14.5	11.5
19	8.0	3.5	17.0	13.0	19.0	15.0	---	---	20.0	14.0	16.5	14.0
20	8.5	3.5	18.5	13.0	18.5	16.0	---	---	19.0	15.5	15.5	11.0
21	9.0	5.0	18.5	13.0	18.0	16.0	---	---	21.0	14.5	11.0	9.5
22	7.0	5.0	20.5	14.5	16.0	14.5	---	---	16.5	15.0	12.0	9.0
23	6.5	5.5	21.0	16.0	17.0	14.0	---	---	19.0	14.0	12.0	9.0
24	5.5	4.5	20.5	16.0	18.5	13.5	---	---	17.0	15.0	11.0	10.5
25	4.5	4.0	21.5	17.0	17.0	16.0	---	---	17.0	13.5	12.0	9.5
26	5.5	4.5	20.0	15.5	18.5	16.5	---	---	19.5	12.0	11.0	10.0
27	8.0	5.5	19.0	14.5	20.5	15.5	---	---	21.0	14.0	11.0	10.0
28	8.0	6.0	16.0	12.0	22.0	16.5	---	---	25.0	18.0	12.0	10.5
29	7.0	3.5	15.5	10.0	20.5	17.0	---	---	24.5	20.0	12.0	10.5
30	9.0	4.5	18.5	11.5	20.5	16.0	---	---	24.5	19.5	10.5	9.5
31	---	---	19.5	13.0	---	---	---	---	21.5	18.0	---	---
MONTH	9.0	0.5	21.5	6.0	22.0	10.0	22.0	14.5	25.5	12.0	24.0	9.0
YEAR	25.5	0.0										

01054300 ELLIS RIVER AT SOUTH ANDOVER, ME

LOCATION.--Lat 44°35'37", long 70°44·01", Oxford County, Hydrologic Unit 01040002, on left bank 100 ft (30 m) upstream from covered bridge at South Andover.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--Feburary 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage i« 620.00 ft (188.976 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--14 years, 252 ft³/s (7.137 m³/s), 26.12 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,630 ft³/s (159 m³/s) Dec. 29, 1969, gage height, 19.23 ft (5.861 m); minimum, 12 ft³/s (0.34 m³/s) part or all of each day Aug. 20-22, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.64 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 21	1700	*3460	98.0	*16.35	4.983	Apr. 1	0100	2080	58.9	14.70	4.481
Mar. 15	0400	2400	68.0	15.59	4.752						

Minimum discharge, 20 ft³/s (0.56 m³/s) Aug. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	364	120	89	68	68	1720	473	84	192	23	66
2	104	291	115	88	68	68	1110	456	106	164	28	58
3	98	245	110	87	68	66	959	445	152	135	26	65
4	90	260	105	87	67	65	997	392	153	118	23	60
5	85	369	105	86	67	64	830	355	125	109	20	54
6	81	300	100	85	66	68	684	350	120	93	26	55
7	80	283	200	84	66	74	592	363	168	79	38	53
8	81	344	640	83	65	82	488	320	372	75	34	45
9	224	287	600	83	65	100	433	285	255	76	28	43
10	700	244	390	82	64	130	379	260	189	74	23	39
11	382	228	300	81	64	190	341	246	165	64	28	38
12	270	204	240	80	63	300	415	226	301	59	35	36
13	228	192	190	79	63	450	712	218	286	60	46	36
14	220	182	150	79	66	1230	1460	213	208	64	44	281
15	244	175	130	78	70	2250	1180	196	166	57	140	323
16	210	171	120	77	68	1820	887	183	140	50	83	176
17	182	164	115	77	66	1440	929	178	160	45	686	136
18	163	158	110	76	65	1200	1090	178	300	42	823	157
19	149	154	105	75	63	956	1150	176	265	41	376	139
20	138	149	105	74	62	736	1100	161	360	36	251	118
21	1890	132	100	74	60	509	1120	148	540	33	214	123
22	1030	130	100	73	58	414	1270	138	640	31	175	168
23	768	123	99	73	57	379	1210	129	450	28	233	132
24	524	120	98	72	56	341	1220	118	250	26	188	110
25	439	120	96	71	55	300	1260	108	215	25	214	112
26	436	114	95	71	60	267	974	99	460	27	171	153
27	381	114	94	70	62	258	803	89	360	28	134	833
28	316	144	92	70	65	308	713	81	260	26	112	524
29	277	163	91	69	---	464	623	131	215	23	99	390
30	249	136	90	69	---	814	526	121	236	23	85	314
31	256	---	89	68	---	1580	---	96	---	23	75	---
TOTAL	10406	6060	5094	2410	1787	16991	27175	6932	7701	1926	4481	4837
MEAN	336	202	164	77.7	63.8	548	906	224	257	62.1	145	161
MAX	1890	369	640	89	70	2250	1720	473	640	192	823	833
MIN	80	114	89	68	55	64	341	81	84	23	20	36
CFSM	2.57	1.54	1.25	.59	.49	4.18	6.92	1.71	1.96	.47	1.11	1.23
IN.	2.95	1.72	1.45	.68	.51	4.82	7.72	1.97	2.19	.55	1.27	1.37

CAL YR 1976 TOTAL 118706 MEAN 324 MAX 4500 MIN 52 CFSM 2.47 IN 33.71
WTR YR 1977 TOTAL 95800 MEAN 262 MAX 2250 MIN 20 CFSM 2.00 IN 27.20

01054500 ANDROSCOGGIN RIVER AT RUMFORD, ME

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County, Hydrologic Unit 01040002, on left bank at upper powerplant of Rumford Falls Power Co. in Rumford and 1.2 mi (1.9 km) upstream from Swift River.

DRAINAGE AREA.--2,067 mi^2 (5,354 km^2).

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

REVISED RECORDS.--WSP 1001: Drainage area.

GAGE.--Nonrecording gages in pond above dam in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

REMARKS.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (Reservoirs in Androscoggin River basin), with final regulation at Errol Dam about 84 mi 135 km) upstream.

COOPERATION.--Records furnished by Rumford Falls Power Co.

AVERAGE DISCHARGE.--85 years, 3,707 ft^3/s (105 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,000 ft^3/s (2,096 m^3/s) Mar. 20, 1936; minimum daily, 625 ft^3/s (17.7 m^3/s) Mar. 27, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 19,600 ft^3/s (555 m^3/s) Oct. 21; minimum daily, 1,840 ft^3/s (52.1 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2630	5020	2560	2680	2710	3090	16200	3880	2240	3540	2170	2140
2	2600	4360	2730	2880	2730	3000	12000	4180	2590	3440	2070	2160
3	2560	3590	2420	2950	2690	2500	12300	4530	3170	3340	2030	2260
4	2570	3840	2370	3800	2700	2530	11500	3700	2540	3130	1940	2290
5	2570	4360	3150	3030	2630	2510	9270	3270	2250	2900	2080	1840
6	2580	5210	3360	2820	2690	2560	7870	3550	2220	2920	2030	2090
7	2570	4690	4830	2830	2660	2560	6120	4050	3020	2420	2080	2130
8	2610	4160	6850	2800	2790	2540	4720	3450	3660	2390	2030	2020
9	5560	3710	3640	2740	2920	2630	4570	3090	2910	2410	2030	2100
10	8660	3600	3230	2760	2870	3070	4070	3100	2570	2290	2030	2140
11	5230	3530	3820	2680	2860	3970	3830	3070	2810	2310	2170	2110
12	3810	3500	3580	2750	2750	4490	5060	3000	4270	2180	2190	2170
13	3400	3470	3350	2680	2660	5430	8940	3010	3650	2370	2100	2260
14	3610	3460	2780	2830	2670	15400	16400	2920	2890	2400	2130	3820
15	3900	3420	3280	2900	2870	18400	13500	2750	2760	2230	2590	4480
16	3900	3540	3490	3000	2780	14000	10800	2710	2520	2130	2450	2930
17	3600	3300	3360	2800	2720	11800	10300	2820	2510	2180	4910	2570
18	3470	3400	3250	2650	2800	9230	10800	3200	2760	2170	6630	2740
19	3260	3140	3040	2750	2930	7900	11400	3100	2810	2060	4700	2520
20	3290	3010	3180	2940	3050	7130	11500	2770	2820	2160	3420	2400
21	19600	3140	3290	2950	3040	6550	12800	2650	2880	2170	2500	2890
22	13700	3240	2680	2780	2980	6040	14500	2590	3030	2220	2440	3110
23	7810	3190	2790	2770	2840	5140	15900	2660	2890	2120	2590	2910
24	5600	3170	3030	2850	2830	4880	16800	2510	2870	1960	2560	2510
25	4880	3230	2750	3100	2800	4340	16100	2460	2900	2170	2670	2480
26	4990	3160	3010	2840	2750	3860	12800	2390	3140	2170	2590	3430
27	4780	3220	2870	2860	2790	3600	9980	2280	4950	2080	2360	7620
28	4330	3520	2600	2850	2910	4920	7070	2250	4350	2050	2330	5250
29	3810	3780	2810	2780	---	6750	5160	2760	3550	2080	2300	4120
30	3480	3300	2820	2850	---	11000	4220	2650	3660	2230	2250	3820
31	4020	---	2650	2790	---	17300	---	2430	---	2100	2210	---
TOTAL	149380	109260	99570	88690	78420	199120	306480	93780	91190	74320	80580	87310
MEAN	4819	3642	3212	2861	2801	6423	10220	3025	3040	2397	2599	2910
MAX	19600	5210	6850	3800	3050	18400	16800	4530	4950	3540	6630	7620
MIN	2560	3010	2370	2650	2630	2500	3830	2250	2220	1960	1940	1840

CAL YR 1976 TOTAL 1699400 MEAN 4643 MAX 28500 MIN 2230
WTR YR 1977 TOTAL 1458100 MEAN 3995 MAX 19600 MIN 1840

01055000 SWIFT RIVER NEAR ROXBURY, ME

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, Hydrologic Unit 01040002, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--95.8 mi^2 (248 km^2).

PERIOD OF RECORD.--June 1929 to current year.

REVISED RECORDS.--WSP 801: 1934(M). WSP 1301: Drainage area. WSP 1301: 1937-38(M), 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft (187.656 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--48 years, 205 ft^3/s (5.81 m^3/s), 28.07 in/yr (713 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s (476 m^3/s) Oct. 24, 1959, gage height, 12.87 ft (3.923 m), from rating curve extended above 7,000 ft^3/s (198 m^3/s); minimum, 3.8 ft^3/s (0.11 m^3/s) Sept. 16, 17, 1948, gage height, 0.93 ft (0.283 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft^3/s (68.0 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 21	1000	*4910	139	*7.46	2.274	Aug. 17	1000	3850	109	6.76	2.060
Apr. 14	0300	2630	74.5	5.77	1.759	Sept. 27	0200	3560	101	6.54	1.993

Minimum discharge, 12 ft^3/s (0.34 m^3/s) Aug. 5, gage height, 1.18 ft (0.360 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	328	92	58	42	45	1170	345	58	129	19	38
2	79	208	85	57	42	40	578	418	136	108	19	40
3	73	170	81	56	41	38	648	405	183	84	16	55
4	66	256	78	56	41	38	567	312	144	74	13	41
5	61	326	75	55	40	39	417	290	101	72	22	35
6	58	469	150	54	40	41	333	395	102	58	73	51
7	61	313	350	54	39	39	268	375	183	50	48	42
8	84	234	586	53	39	38	224	274	304	47	30	32
9	397	188	251	52	38	44	211	219	166	59	22	28
10	691	167	150	52	38	58	206	193	112	50	19	27
11	259	159	130	51	38	120	184	188	131	40	32	29
12	175	139	120	51	39	270	293	177	410	37	41	26
13	145	133	110	50	41	485	608	231	263	53	45	29
14	201	130	100	49	43	1420	1660	205	166	51	40	532
15	206	126	92	49	44	1430	710	165	117	39	205	282
16	157	120	88	48	43	918	533	156	88	32	68	139
17	133	116	85	48	42	579	704	178	111	27	1450	104
18	119	115	82	48	40	373	929	210	224	25	447	108
19	108	112	79	48	39	276	985	169	197	24	167	91
20	104	107	76	47	38	243	996	143	247	21	100	74
21	2490	96	74	47	37	205	1320	127	411	18	113	126
22	792	92	72	46	36	187	1530	114	501	16	105	185
23	396	90	70	46	35	174	1340	102	308	15	257	111
24	280	88	68	46	34	164	1200	87	195	14	163	87
25	262	84	67	46	34	152	864	75	153	15	236	83
26	312	81	65	45	34	150	590	70	347	23	129	322
27	236	92	63	45	33	158	508	60	320	21	86	1510
28	193	110	62	44	40	223	505	58	187	16	66	442
29	174	132	61	44	---	407	419	150	141	14	56	284
30	162	97	60	44	---	912	343	96	189	14	47	216
31	230	---	59	43	---	1800	---	70	---	22	40	---
TOTAL	8791	4878	3581	1532	1090	11066	20843	6057	6195	1268	4174	5169
MEAN	284	163	116	49.4	38.9	357	695	195	207	40.9	135	172
MAX	2490	469	586	58	44	1800	1660	418	501	129	1450	1510
MIN	58	81	59	43	33	38	184	58	58	14	13	26
CFSM	2.97	1.70	1.21	.52	.41	3.73	7.26	2.04	2.16	.43	1.41	1.80
IN.	3.41	1.89	1.39	.59	.42	4.30	8.09	2.35	2.41	.49	1.62	2.01

CAL YR 1976 TOTAL 95097 MEAN 260 MAX 2670 MIN 29 CFSM 2.71 IN 36.93
WTR YR 1977 TOTAL 74644 MEAN 205 MAX 2490 MIN 13 CFSM 2.14 IN 28.98

01055500 NEZINSCOT RIVER AT TURNER CENTER, ME

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, Hydrologic Unit 01040002, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft (84.213 m) above mean sea level.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 304 ft³/s (8,609 m³/s), 24.14 in/yr (613 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s (394 m³/s) Mar. 27, 1953, gage height, 11.18 ft (3.408 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 29, 1956, gage height, 0.72 ft (0.219 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s (48.1 m³/s) and maximums (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 22	0500	2200	62.3	4.84	1.475	Apr. 1	0900	2770	78.4	5.29	1.612
Mar. 15	1800	*8530	242	*8.69	2.649						

Minimum discharge, 19 ft³/s (.538 m³/s) Sept. 12, 13, gage height, 1.00 ft (0.305 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	417	153	100	84	89	2660	390	80	222	27	29
2	110	390	135	100	83	89	2080	355	135	173	29	27
3	100	324	135	100	82	87	1780	322	205	145	30	27
4	93	317	130	98	79	83	2050	305	180	133	28	26
5	88	403	125	98	78	88	1670	280	130	110	27	25
6	85	478	125	98	77	90	1420	270	150	94	27	25
7	83	549	200	100	76	94	1230	260	140	81	28	24
8	82	461	350	100	76	94	1000	250	229	76	27	22
9	300	363	770	100	75	92	781	240	242	78	26	22
10	810	306	470	105	75	97	683	255	175	76	24	21
11	400	272	320	110	76	115	620	270	155	67	29	21
12	270	238	240	115	78	160	700	235	217	62	31	19
13	211	222	205	120	82	230	1000	210	253	79	32	21
14	184	207	170	120	86	2520	1310	190	189	108	31	78
15	193	202	150	120	89	7330	1200	175	159	96	31	149
16	176	200	130	120	89	6270	950	160	141	76	34	111
17	151	193	125	115	87	3390	1100	150	118	63	110	80
18	135	187	140	115	84	2230	1050	140	127	55	204	70
19	121	183	155	115	82	1660	800	130	147	48	135	79
20	117	179	140	110	80	1460	650	120	147	44	88	70
21	1170	162	135	105	78	1110	560	110	175	40	65	104
22	2070	146	160	105	77	1000	540	100	473	38	58	227
23	1330	153	145	100	77	795	680	92	525	37	64	215
24	790	145	125	100	77	722	980	65	394	35	67	148
25	617	143	115	100	78	693	1340	80	306	34	62	110
26	569	139	110	100	83	627	780	76	412	39	52	137
27	502	141	105	97	88	606	630	74	410	36	44	686
28	414	146	105	94	89	679	540	73	321	34	39	861
29	350	178	100	90	---	964	475	97	236	30	35	581
30	305	217	99	88	---	1410	430	89	239	29	32	420
31	297	---	100	85	---	2180	---	84	---	28	30	---
TOTAL	12243	7661	5667	3223	2265	37054	31689	5667	6810	2266	1546	4435
MEAN	395	255	183	104	80.9	1195	1056	183	227	73.1	49.9	148
MAX	2070	549	770	120	89	7330	2660	390	525	222	204	861
MIN	82	139	99	85	75	83	430	73	80	28	24	19
CFSM	2.31	1.49	1.07	.61	.47	6.99	6.18	1.07	1.33	.43	.29	.87
IN.	2.66	1.67	1.23	.70	.49	8.06	6.89	1.23	1.48	.49	.34	.96

CAL YR 1976 TOTAL 138894 MEAN 379 MAX 3850 MIN 50 CFSM 2.22 IN 30.22
WTR YR 1977 TOTAL 120526 MEAN 330 MAX 7330 MIN 19 CFSM 1.93 IN 26.22

NOTE.--No gage-height record May 4 to June 7.

01057000 LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, Hydrologic Unit 01040002, on right bank 30 ft (9 m) upstream from Biscoe Falls and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--76.2 mi^2 (197 km^2).

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

REVISED RECORDS.--WSP 726: Drainage area. WSP 1301: 1915-23(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--56 years (water years 1914-23, 1932-77), 139 ft^3/s (3.936 m^3/s), 24.77 in/yr (629 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s (227 m^3/s) Mar. 27, 1953, gage height, 12.41 ft (3.783 m), from rating curve extended above 2,800 ft^3/s (79.3 m^3/s), verified by computation of flow over dam at South Paris; minimum, 1 ft^3/s (0.028 m^3/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.32 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 21	1900	1520	43.0	6.57	2.003	Mar. 31	2300	1440	40.8	6.46	1.969
Mar. 15	0100	*2800	79.3	*8.15	2.484						

Minimum discharge, 4.0 ft^3/s (0.113 m^3/s) Aug. 10, gage height, 1.40 ft (0.427 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	219	69	51	38	64	1140	184	31	69	6.2	11
2	40	173	67	50	37	58	673	168	39	54	6.6	9.6
3	38	145	62	50	37	52	812	157	78	44	6.3	8.9
4	35	172	61	49	36	49	848	139	80	36	5.8	8.5
5	36	201	59	48	35	52	588	126	57	32	6.1	8.0
6	34	334	58	47	35	62	507	127	57	26	5.6	7.8
7	33	302	186	47	34	58	439	126	52	22	5.0	6.9
8	33	222	652	46	34	55	343	111	85	19	4.8	6.2
9	134	180	276	46	33	55	277	101	64	23	4.5	5.6
10	395	153	140	46	30	71	245	109	58	22	4.4	4.9
11	203	136	105	53	32	126	235	129	60	19	5.7	4.7
12	140	118	85	60	39	177	274	108	171	17	7.1	4.7
13	106	109	70	57	41	253	438	93	131	24	8.1	5.0
14	110	102	64	54	44	1580	634	83	89	88	7.8	62
15	111	101	62	53	45	2280	520	76	86	53	11	69
16	92	98	65	52	42	1310	405	73	62	37	14	41
17	77	94	72	51	39	894	396	61	54	29	90	32
18	67	93	82	49	38	631	370	61	75	24	77	43
19	59	91	70	48	38	474	325	59	66	21	44	37
20	58	87	67	47	37	386	278	53	63	18	31	29
21	855	77	64	46	36	322	245	50	214	15	25	143
22	859	73	62	46	35	284	225	46	216	13	22	159
23	406	71	60	45	35	263	295	42	158	11	43	94
24	260	69	59	44	35	239	486	37	117	11	34	68
25	236	68	57	43	37	210	646	33	90	10	29	56
26	247	67	56	42	41	191	457	29	91	10	24	114
27	217	69	55	41	44	205	331	26	101	9.7	20	774
28	177	73	54	41	50	291	275	25	80	6.9	17	375
29	154	99	53	40	---	483	237	55	65	5.2	15	258
30	137	96	52	39	---	743	208	45	92	5.8	13	190
31	143	---	51	38	---	1240	---	36	---	6.3	12	---
TOTAL	5536	3892	2995	1469	1057	13158	13152	2568	2682	780.9	605.0	2635.8
MEAN	179	130	96.6	47.4	37.8	424	438	82.8	89.4	25.2	19.5	87.9
MAX	859	334	652	60	50	2280	1140	184	216	88	90	774
MIN	33	67	51	38	30	49	208	25	31	5.2	4.4	4.7
CFSM	2.35	1.71	1.27	.62	.50	5.56	5.75	1.09	1.17	.33	.26	1.15
IN.	2.70	1.90	1.46	.72	.52	6.42	6.42	1.25	1.31	.38	.30	1.29

CAL YR 1976 TOTAL 67149.0 MEAN 183 MAX 2480 MIN 21 CFSM 2.40 IN 32.78
WTR YR 1977 TOTAL 50530.7 MEAN 138 MAX 2280 MIN 4.4 CFSM 1.81 IN 24.67

01058005 THOMPSON LAKE OUTLET AT OXFORD, ME

LOCATION.--Lat 44°08'07", long 70°29'28", Oxford County, Hydrologic Unit 01040002, on left bank at Oxford 50 ft (15 m) upstream from bridge on State Highway 121, and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--47.3 mi² (123 km²).

PERIOD OF RECORD.--June to December 1975, February 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 320 ft (98 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Thompson Lake (Reservoirs in Androscoggin River basin). Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 546 ft³/s (15.5 m³/s) Mar. 17, 1977, gage height, 11.36 ft (3.463 m); minimum, 6.7 ft³/s (0.19 m³/s) July 31, 1977, gage height, 7.93 ft (2.417 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 546 ft³/s (15.5 m³/s) Mar. 17, gage height, 11.36 ft (3.463 m); minimum, 6.7 ft³/s (0.19 m³/s) July 31, gage height, 7.93 ft (2.417 m).

REVISIONS.--The maximum discharges for the period June to September 1975 and water year 1976 have been revised to 183 ft³/s (5.18 m³/s) Sept. 30, 1975, gage height, 9.88 ft (3.011 in) and 472 ft³/s (13.4 m³/s) Apr. 3, 1976, gage height, 11.14 ft (3.395 m); revised daily discharges, in cubic feet per second, for high-water periods in water year 1976 are given below. These figures supersede those published in the reports for 1975-76.

Oct. 28, 1975 ...61
29 60
30 58
31 57
Nov. 1 56
2 55

Nov. 3, 1975 ...54
4 54
5 53
6 53
7 52
8 52

Nov. 9, 1975 ... 64
10 92
11 120
Apr. 1, 1976 ...295
2 412
3 445

Apr. 4, 1976 ...439
5 430
6 415
7 337

Month	Total	Mean	Max	Min	Cfsm	In.
October 1975	2843	91.7	159	57	1.94	2.24
November 1975	3575	119	192	52	2.52	2.81
April 1976	3887	130	445	39	2.75	3.06

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	70	64	64	63	59	93	116	20	10	35	45
2	42	68	64	65	63	58	103	115	16	10	70	42
3	29	67	62	65	63	56	116	114	16	9.7	69	41
4	22	67	63	65	63	56	274	127	15	9.5	51	40
5	17	67	63	65	63	56	448	145	14	9.3	54	40
6	27	69	63	65	63	56	392	141	14	9.1	54	40
7	52	68	68	65	62	57	332	133	14	9.0	54	39
8	60	67	64	67	62	57	330	132	15	8.9	54	38
9	100	67	64	67	62	57	322	127	18	8.8	53	38
10	160	67	64	67	62	57	312	127	18	8.8	53	37
11	150	66	64	67	62	57	305	128	18	8.7	55	37
12	135	65	64	67	62	58	176	128	16	8.7	55	37
13	120	65	64	67	61	59	119	123	13	8.7	54	37
14	176	65	64	67	61	167	119	115	12	8.6	53	44
15	217	65	64	67	61	391	119	114	12	8.5	52	43
16	244	65	64	66	61	514	118	114	13	8.4	51	43
17	248	65	64	65	61	536	116	108	14	8.6	55	43
18	250	65	64	64	61	536	116	107	14	8.6	54	18
19	220	65	64	64	61	508	114	104	18	9.4	53	65
20	115	63	64	64	61	494	111	103	16	10	52	104
21	75	62	64	65	60	475	107	98	18	11	50	105
22	70	62	64	65	60	472	105	92	20	10	50	104
23	70	62	64	65	60	466	107	57	24	9.4	51	104
24	69	62	64	65	60	442	113	27	76	9.0	49	104
25	69	62	64	65	60	420	119	26	75	8.7	48	104
26	68	62	64	64	60	402	124	25	75	8.4	46	119
27	69	63	64	64	60	388	125	23	76	8.1	45	146
28	70	63	63	64	60	145	122	22	75	7.9	45	183
29	70	63	64	64	------	47	118	23	49	7.9	45	183
30	69	64	64	64	------	59	116	23	11	7.3	45	183
31	70	------	64	64	------	78	------	23	------	7.0	45	------
TOTAL	3209	1951	1982	2022	1718	7283	5291	2860	805	276	1600	2206
MEAN	104	65.0	63.9	65.2	61.4	235	176	92.3	26.8	8.90	51.6	73.5
MAX	250	70	68	67	63	536	448	145	76	11	70	183
MIN	17	62	62	64	60	47	93	22	11	7.0	35	18
CFSM	2.20	1.37	1.35	1.38	1.30	4.97	3.72	1.95	.57	.19	1.09	1.55
IN.	2.52	1.53	1.56	1.59	1.35	5.73	4.16	2.25	.63	.22	1.26	1.73

WTR YR 1977 TOTAL 31203 MEAN 85.5 MAX 536 MIN 7.0 CFSM 1.81 IN. 24.54

01058500 LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, Hydrologic Unit 01040002, on right bank 100 ft (30 m) upstream from highway bridge at Littlefields, 3 mi (5 km) southwest of Auburn, and 4.6 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--328 mi² (850 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (65.5 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Thompson Lake (Reservoirs in Androscoggin River basin) and several powerplants above station. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 572 ft³/s (16.20 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) Mar. 28, 1953, gage height, 14.76 ft (4.499 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 14, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 16,800 ft³/s (476 m³/s) Mar. 20, 1936, at mouth of river.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,230 ft³/s (233 m³/s) Mar. 16, gage height, 10.42 ft (3.176 m); minimum daily, 68 ft³/s (1.93 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	673	320	260	210	369	3240	930	214	335	72	104
2	239	658	300	260	210	353	3190	850	153	328	74	102
3	167	606	285	255	205	356	3010	746	225	246	72	97
4	143	582	275	255	205	362	2900	665	222	180	71	90
5	119	632	270	250	200	413	2910	627	229	160	75	87
6	173	709	285	250	200	485	2750	620	256	150	84	87
7	276	820	441	250	200	454	2390	624	241	153	84	82
8	300	854	1110	250	200	428	2100	600	336	134	76	75
9	337	735	840	250	200	424	1840	576	354	129	78	75
10	569	657	820	280	200	487	1610	650	285	130	82	74
11	785	588	630	280	200	615	1480	772	257	119	93	72
12	708	506	520	275	200	777	1390	753	266	114	98	68
13	611	449	440	270	210	981	1310	652	361	116	96	70
14	548	423	385	265	220	4810	1410	570	357	117	93	123
15	486	427	350	260	220	7110	1510	516	289	114	119	144
16	507	399	340	255	215	7950	1480	500	259	114	106	157
17	498	386	340	250	210	6270	1370	460	240	108	174	168
18	469	378	335	245	205	4530	1280	436	226	112	207	150
19	438	374	320	240	205	3570	1220	419	245	111	238	127
20	418	359	325	235	210	2890	1100	389	234	105	209	136
21	1170	344	325	235	210	2470	993	380	232	122	165	254
22	1730	325	310	230	210	2210	910	350	389	133	161	407
23	1920	300	300	225	215	2000	893	313	536	106	163	482
24	1510	305	295	225	230	1860	1070	273	526	96	151	436
25	1190	285	285	220	275	1720	1480	226	458	92	158	308
26	1050	308	280	220	325	1560	1640	166	424	93	139	343
27	952	291	280	220	374	1530	1550	186	441	88	122	716
28	855	306	275	215	384	1610	1280	134	403	82	111	1110
29	760	390	270	215	---	1770	1090	180	356	78	120	1040
30	683	422	265	210	---	2160	999	188	323	75	112	893
31	623	---	265	210	---	2780	---	194	---	73	106	---
TOTAL	20516	14491	12081	7560	6348	65304	51395	14945	9337	4113	3709	8077
MEAN	662	483	390	244	227	2107	1713	482	311	133	120	269
MAX	1920	854	1110	280	384	7950	3240	930	536	335	238	1110
MIN	119	285	265	210	200	353	893	134	153	73	71	68

CAL YR 1976 TOTAL 251509 MEAN 687 MAX 5740 MIN 100
WTR YR 1977 TOTAL 217876 MEAN 597 MAX 7950 MIN 68

01059000 ANDROSCOGGIN RIVER NEAR AUBURN, ME

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, Hydrologic Unit 01040002, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 mi² (8,436 km²).

PERIOD OF RECORD.--Discharge: October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.
Water-quality records: Water years 1966-75.

REVISED RECORDS.--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes, and Gulf Island Pond (Reservoirs in Androscoggin River basin) with major regulation at Errol Dam 136 mi (219 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--49 years, 6,135 ft³/s (173.7 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s (3,820 m³/s) Mar. 20, 1936, gage height, 27.57 ft (8.403 m), from rating curve extended above 76,000 ft³/s (2,150 m³/s) on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 ft³/s (9.63 m³/s) Sept. 28, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46,800 ft³/s (1,380 m³/s) Mar. 15, gage height, 13.91 ft (4.240 m), from peak-stage indicator; minimum daily, 599 ft³/s (17.0 m³/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4580	7010	5550	2520	4270	4090	33000	8780	4330	5450	2460	3860
2	3140	8150	5070	2020	4670	3780	27800	8150	4130	4650	2830	4000
3	992	7550	5200	3720	4710	3870	23900	7880	3700	4070	2810	2250
4	3650	6950	3540	4310	3910	3800	25400	8030	4050	3270	2800	599
5	3910	6980	2190	4380	3290	3680	22600	7060	2270	4830	2820	833
6	4010	7440	3070	4090	2280	2450	19800	6920	3650	5670	1870	3840
7	3520	9470	5100	4350	2250	4090	17300	6480	4210	5230	685	2990
8	3400	8450	7530	3360	3650	4400	14700	6810	4310	2370	2170	2770
9	3170	7380	10300	2240	3560	4230	11900	6670	5280	2000	2650	2810
10	7790	6980	7790	3020	3610	4760	10900	6590	5210	2010	2450	2260
11	11300	5890	6070	4330	3630	6180	9800	6640	3530	3470	2330	670
12	7550	5840	5320	3700	2730	6510	9320	5840	2090	3360	2340	2290
13	6700	5450	4900	3970	2370	7350	11500	5630	6040	3390	1610	2810
14	5530	5450	5270	4290	3240	19600	17500	5120	6010	3380	674	4170
15	4950	5400	4880	2840	3760	39000	22700	3630	5380	3360	2300	4830
16	4710	5420	4780	2210	3760	37000	18500	4440	5190	2380	3020	5080
17	5860	6210	4900	3970	3910	31600	16400	4490	5230	1170	4580	4370
18	4380	6260	4600	4050	4090	24800	16300	3970	3430	2680	6280	1770
19	5170	5450	3940	4070	3190	20100	16700	4620	1340	2910	7730	3080
20	6180	3850	4070	3870	2270	17100	16900	5200	3200	2840	6000	3770
21	10100	2180	4810	4250	3590	15200	16600	4580	3880	2930	4410	3900
22	31000	4930	5400	3050	3990	13900	17800	3340	6400	2810	3330	3970
23	19900	4430	5300	2190	3670	12300	19400	3910	6760	2300	4270	4170
24	13000	4880	3610	3450	4270	10800	22000	4490	6340	1330	4470	4100
25	10600	4670	2750	3490	4580	10100	24700	5200	5390	2780	4740	2480
26	9350	4950	3190	4110	3410	8780	22200	3740	5020	3160	3720	4480
27	9200	4760	4310	4070	2390	8600	18400	3470	4870	3130	3300	9030
28	8150	2660	5120	3800	4350	8960	15300	2880	6660	3200	962	12500
29	7580	3970	4710	3610	---	11700	12100	1880	6720	3250	2360	8860
30	6760	5550	4600	2330	---	15600	9800	1920	6510	2160	2800	7400
31	6590	---	3470	3830	---	25500	---	4030	---	769	2790	---
TOTAL	232722	174960	151890	104990	99400	389830	541220	162390	141130	96309	97561	119942
MEAN	7507	5832	4900	3548	3550	12580	18040	5238	4704	3107	3147	3998
MAX	31000	9470	10300	4380	4710	39000	33000	8780	6760	5670	7730	12500
MIN	992	2180	2190	2020	2250	2450	9320	1880	1340	769	674	599

CAL YR 1976 TOTAL 2842552 MEAN 7767 MAX 44700 MIN 992
WTR YR 1977 TOTAL 2317344 MEAN 6349 MAX 39000 MIN 599

NOTE.--No gage-height record Mar. 15-17.

01059160 SABATTUS RIVER AT LISBON CENTER, ME

LOCATION.--Lat 44°01'13", long 70°05'27", Androscoggin County, Hydrologic Unit 01040002, on left bank at Lisbon Center 600 ft (180 m) downstream from Mill Street Bridge, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--72.3 mi² (187 km²).

PERIOD OF RECORD.--June 1975 to current year (seasonal records only). Prior to October 1976, published as "near Lisbon Center."

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (43 m) from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 2,630 ft³/s (74.5 m³/s) Apr. 2, 1976, gage height, 8.65 ft (2.637 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 24, 28, 1975, gage height, 3.64 ft (1.110 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Oct. 21, gage height, 7.04 ft (2.146 m); minimum, 32 ft³/s (0.91 m³/s) July 30, gage height, 3.80 ft (1.158 m).

REVISIONS.--The maximum discharges for the period June to September 1975 and water year 1976 have been revised to 478 ft³/s (13.5 m³/s) Sept. 27, 1975, gage height, 5.87 ft (1.789 m) and 2,630 ft³/s (74.5 m³/s) Apr. 2, 1976, gage height, 8.65 ft (2.637 m); revised daily discharges, in cubic feet per second, for high-water periods in water year 1976 are given below. These figures supersede those published in the reports for 1975-76.

Nov. 13, 1975 ...379
14 440
22 394
Mar. 27, 1976 ...510
Mar. 28, 1976 ...790
29 660
30 554
31 450
Apr. 1, 1976 ...758
Apr. 2, 1976 ...1700
3 570
4 432
5 353
6 308
May 19, 1976 ...358
20 335
Aug. 10, 1976 ...908
11 338

Month	Total	Mean	Max	Min	Cfsm	In.
November 1975	5633	188	440	91	2.60	2.90
April 1976	6220	207	1700	48	2.86	3.20
May 1976	3418	110	358	47	1.52	1.76
August 1976	3814	123	908	43	1.70	1.96

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	262	76				680	98	36	50	75	41
2	155	183	67				450	98	55	46	60	41
3	151	157					697	94	58	44	49	40
4	148	187					620	86	63	42	39	39
5	142	225					522	76	61	42	36	38
6	139	161					560	80	84	41	48	38
7	135	139					394	80	71	40	52	38
8	134	157					350	71	78	46	40	37
9	160	125					305	68	67	58	51	37
10	199	117					270	183	54	43	38	37
11	144	117					245	175	60	39	55	37
12	128	108					238	105	68	39	46	35
13	122	106					240	86	83	43	41	38
14	122	105					228	74	72	43	50	99
15	112	117					203	62	64	38	75	78
16	108	112					175	58	68	37	46	50
17	102	98					161	54	60	36	120	45
18	104	96					114	52	54	36	81	44
19	96	90					102	49	48	36	53	44
20	98	82					100	48	42	37	49	42
21	749	65					93	46	60	61	46	99
22	338	60					90	43	120	60	53	105
23	155	58					112	42	93	38	74	61
24	175	56					171	41	74	36	55	52
25	255	56					290	40	60	38	59	51
26	200	55					187	37	61	40	50	151
27	155	56					142	36	59	36	46	498
28	137	63					135	38	52	35	44	127
29	128	99			------		137	44	51	34	44	90
30	134	159			------		181	39	57	33	43	78
31	159	------			------		------	37	------	35	42	------
TOTAL	5243	3471					8192	2140	1933	1282	1660	2210
MEAN	169	116					273	69.0	64.4	41.4	53.6	73.7
MAX	749	262					697	183	120	61	120	498
MIN	96	55					90	36	36	33	36	35
CFSM	2.34	1.60					3.78	.95	.89	.57	.74	1.02
IN.	2.70	1.79					4.21	1.10	.99	.66	.85	1.14

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°55'03", long 69°58'25", Cumberland County, Hydrologic Unit 01060001, on right bank at cable suspended footbridge, 530 ft (161 m), downstream from railroad bridge at Brunswick.

DRAINAGE AREA.--3,410 mi^2 (8.832 km^2).

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1975 to current year.
WATER TEMPERATURES: November 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 194 micromhos Feb. 16, 1977; minimum, 36 micromhos Apr. 4, 1976.
WATER TEMPERATURES: Maximum, 27.0°C July 21, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 194 micromhos Feb. 16; minimum, 39 micromhos Mar. 17.
WATER TEMPERATURES: Maximum, 27.0°C July 21; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM .7UM-MF (COL./ 100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT												
26...	1500	10100	52	6.6	7.0	--	11.0	90	820	--	--	--
DEC												
01...	1130	6030	110	6.7	.0	4	13.0	89	190	853	16	1
19...	1600	--	105	6.7	1.0	--	14.0	99	120	832	--	--
JAN												
26...	0945	--	140	6.7	.0	--	13.0	89	833	--	--	--
FEB												
16...	0930	4580	165	6.7	.0	8	--	--	170	470	17	1
MAR												
29...	1230	12800	90	6.8	1.5	--	13.2	94	290	570	--	--
APR												
26...	1400	21600	50	6.6	7.5	4	11.0	92	250	290	11	3
JUN												
21...	1000	4010	120	6.8	19.5	--	8.7	94	893	8120	--	--
AUG												
01...	1100	1380	122	7.0	23.0	--	7.3	84	820	590	--	--
23...	0915	4300	122	7.0	18.5	5	8.7	92	1200	540	21	7
SEP												
19...	1000	2410	135	6.8	17.0	--	8.5	88	8200	1100	--	--

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT												
26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	4.9	1.0	11	58	1.2	.9	19	0	16	6.1	9.2	12
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	5.9	.6	18	68	1.9	1.1	20	0	16	6.4	13	19
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	3.7	.5	4.0	42	.5	.6	10	0	8	4.0	6.5	3.7
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
23...	6.6	1.0	16	61	1.5	1.3	17	0	14	2.7	14	16
SEP												
19...	--	--	--	--	--	--	--	--	--	--	--	--

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)
OCT												
26...	--	--	--	--	--	.07	.35	.42	1.9	.05	--	--
DEC												
01...	.1	5.6	67	54	1090	.13	.43	.56	2.5	.05	0	0
19...	--	--	--	--	--	.17	.38	.55	2.4	.07	--	--
JAN												
26...	--	--	--	--	--	.11	1.4	1.5	6.7	.07	--	--
FEB												
16...	.1	5.4	97	73	1200	.16	.81	.97	4.3	.07	0	0
MAR												
29...	--	--	--	--	--	.22	.50	.72	3.2	.05	--	--
APR												
26...	.0	4.2	34	28	1980	.16	.33	.49	2.2	.03	0	0
JUN												
21...	--	--	--	--	--	.36	.74	1.1	4.9	.07	--	--
AUG												
01...	--	--	--	--	--	.62	.82	1.4	6.4	.06	--	--
23...	.0	4.4	81	68	940	.42	.39	.81	3.6	.08	2	1
SEP												
19...	--	--	--	--	--	.49	.55	1.0	4.6	.06	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)
OCT												
26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	0	1	0	1	<10	0	<10	1	1	0	0	0
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	0	0	0	0	<10	0	<10	0	0	0	10	10
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	0	0	0	0	<10	<7	3	0	0	0	3	0
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
23...	1	0	0	0	10	9	1	0	0	0	7	0
SEP												
19...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	10	350	180	57	50	7	50	--	50	<.5	.0
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	0	310	130	7	2	5	60	10	50	<.5	.0
MAR											
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	3	430	90	11	11	0	30	10	20	.0	.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	7	490	490	100	88	12	70	30	40	.0	.0
SEP											
19...	--	--	--	--	--	--	--	--	--	--	--

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT										
26...	--	--	--	--	--	--	--	--	175	4770
DEC										
01...	<.5	0	0	0	20	0	20	11	184	3000
19...	--	--	--	--	--	--	--	--	22	--
JAN										
26...	--	--	--	--	--	--	--	--	12	--
FEB										
16...	<.5	0	0	0	10	0	10	13	7	87
MAR										
29...	--	--	--	--	--	--	--	--	37	1280
APR										
26...	.0	0	0	0	20	10	10	7.1	2	117
JUN										
21...	--	--	--	--	--	--	--	--	8	87
AUG										
01...	--	--	--	--	--	--	--	--	5	19
23...	.0	0	0	0	20	10	10	7.2	9	104
SEP										
19...	--	--	--	--	--	--	--	--	6	39

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M) DRY WEIGHT	BIOMASS(G/SQ M) ASH WEIGHT	CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
DEC 01	63	1770	1160	0.129	0.027	4770	ARTIFICIAL SUBSTRATE
AUG 23	26	7790	2830	0.807	0.103	6150	ARTIFICIAL SUBSTRATE
SEP 19	41	629	393	0.103	0.043	2290	ARTIFICIAL SUBSTRATE

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1976 TO FEBRUARY 1977

DATE TIME	OCT 26,76 1500	DEC 1,76 1130	DEC 19,76 1600	JAN 26,77 0945	FEB 16,77 0930
TOTAL CELLS/ML	510	790	15000	5900	8100
DIVERSITY: DIVISION	0.5	0.6	0.1	0.1	0.0
.CLASS	0.5	0.6	0.1	0.1	0.0
..ORDER	0.5	0.7	0.1	0.3	0.0
...FAMILY	0.6	0.8	0.1	0.3	0.0
....GENUS	0.6	1.5	0.5	0.8	0.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	13	2	*	0	*	0	--	-
....DICTYOSPHAERIUM	--	-	--	-	*	0	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	13	2	--	-	--	-	--	-
....MELOSIRA	*	0	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	4	1	*	0	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	*	0	--	-
...CYMBELLACEAE										
....CYMBELLA	8	2	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	*	0	4	1	--	-	*	0	--	-
....FRAGILARIA	--	-	9	1	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	*	0	--	-
...MERIDIONACEAE										
....MERIDION	--	-	--	-	*	0	*	0	--	-
...NAVICULACEAE										
....NAVICULA	8	2	13	2	--	-	--	-	--	-
....PINNULARIA	8	2	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	8	2	4	1	*	0	--	-	--	-
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	*	0	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...MALLOMONADACEAE										
....MALLOMONAS	--	-	4	1	*	0	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	*	0	--	-	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....AGMENELLUM	--	-	--	-	--	-	180	3	--	-
....ANACYSTIS	--	-	--	-	--	-	60	1	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....APHANIZOMENON	470#	92	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	540#	69	1600	10	520	9	820	10
....OSCILLATORIA	--	-	170#	21	14000#	89	5100#	86	7200#	90
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	9	1	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	8	2	--	-	--	-	*	0	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	4	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, MARCH 1977 TO SEPTEMBER 1977

DATE	APR 26.77	JUN 21.77	AUG 1.77	AUG 23.77	SEP 19.77
TIME	1400	1000	1100	0915	1000
TOTAL CELLS/ML	320	1200	50000	6500	6100
DIVERSITY: DIVISION	1.4	1.3	1.3	1.3	1.4
.CLASS	1.4	1.4	1.3	1.3	1.4
..ORDER	1.5	2.4	1.4	2.0	1.9
...FAMILY	1.8	3.2	2.1	2.6	2.8
....GENUS	0.0	0.0	2.6	2.7	3.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	7	1	--	-	--	-	37	1
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	28	2	2400	5	630	10	190	3
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	*	0	210	3	--	-
....MICRACTINIUM	--	-	7	1	1900	4	260	4	50	1
...OOCYSTACEAE										
....ANKISTRODESMUS	3	1	150	12	610	1	52	1	370	6
....DICTYOSPHAERIUM	--	-	55	5	2600	5	--	-	480	8
....FRANCEIA	--	-	--	-	*	0	--	-	--	-
....KIRCHNERIELLA	--	-	14	1	2400	5	--	-	--	-
....OOCYSTIS	--	-	14	1	--	-	--	-	--	-
....SELENASTRUM	40	12	*	0	3000	6	--	-	--	-
....WESTELLA	--	-	110	9	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	69	6	2400	5	--	-	50	1
....SCENEDESMUS	12	4	110	9	3900	8	840	13	640	10
....TETRASTRUM	--	-	--	-	--	-	--	-	250	4
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	50	1
....SPHAEROCYSTIS	--	-	150	12	--	-	--	-	--	-
..ULOTRICHALES										
...ULOTRICHACEAE										
....ULOTHRIX	--	-	--	-	--	-	420	6	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	28	2	--	-	--	-	*	0
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	7	1	--	-	--	-	--	-
....STAURASTRUM	--	-	--	-	*	0	52	1	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	69	6	3500	7	52	1	120	2
....MELOSIRA	6	2	52	4	--	-	--	-	190	3
....STEPHANODISCUS	--	-	--	-	--	-	52	1	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	*	0	360	1	52	1	*	0
....COCCONEIS	--	-	*	0	--	-	160	2	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	*	0	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	3	1	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	14	1	--	-	--	-	74	1
....FRAGILARIA	68#	21	--	-	--	-	--	-	*	0
....SYNEDRA	3	1	48	4	610	1	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	*	0	*	0	--	-	--	-	*	0
...MERIDIONACEAE										
....MERIDION	--	-	*	0	--	-	--	-	--	-
...NAVICULACEAE										
....CALONEIS	*	0	--	-	--	-	--	-	--	-
....FRUSTULIA	--	-	*	0	--	-	--	-	--	-
....NAVICULA	--	-	7	1	--	-	--	-	--	-
....PINNULARIA	*	0	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	6	2	45	4	--	-	100	2	74	1
...TABELLARIACEAE										
....TABELLARIA	*	0	--	-	--	-	--	-	*	0
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...MALLOMONADACEAE										
....MALLOMONAS	--	-	7	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

PHYTOPLANKTON ANALYSES, MARCH 1977 TO SEPTEMBER 1977--Continued

DATE	APR 26.77		JUN 21.77		AUG 1.77		AUG 23.77		SEP 19.77	
TIME	1400		1000		1100		0915		1000	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	--	-	130	11	26000#	51	2800#	44	740	12
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	790	12	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	520	8
...OSCILLATORIACEAE	180#	56	35	3	--	-	--	-	--	-
....LYNGBYA	--	-	35	3	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-	2200#	35
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	*	0	--	-	--	-	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	135	134	135	79	76	78	---	---	---	134	133	133
2	136	133	134	77	74	76	109	101	108	136	134	135
3	145	136	140	77	75	76	99	97	98	137	135	136
4	145	134	139	82	78	81	100	97	99	138	137	138
5	134	126	132	84	82	83	100	99	100	138	137	138
6	126	122	124	84	82	83	100	98	99	138	138	138
7	129	124	126	83	81	82	103	98	100	138	138	138
8	129	119	123	84	81	82	101	99	100	138	136	138
9	119	111	117	82	80	81	100	98	99	139	138	138
10	115	112	114	81	79	80	100	98	99	139	138	138
11	120	114	118	---	---	---	101	99	100	139	139	139
12	124	119	121	---	---	---	102	100	101	139	137	138
13	122	115	117	---	---	---	104	100	102	137	135	137
14	116	94	106	---	---	---	104	102	103	137	135	136
15	93	87	89	---	---	---	103	101	102	136	135	135
16	89	86	87	---	---	---	104	102	103	136	133	135
17	87	82	85	---	---	---	104	101	103	136	135	136
18	91	76	83	---	---	---	105	102	103	136	136	136
19	78	76	77	---	---	---	105	103	105	137	136	136
20	82	77	78	---	---	---	109	106	108	138	137	137
21	88	82	85	---	---	---	111	109	110	139	137	138
22	89	85	87	---	---	---	113	111	112	139	139	139
23	84	62	78	---	---	---	116	113	115	142	139	141
24	75	56	62	---	---	---	118	116	117	143	141	142
25	78	53	67	---	---	---	120	118	119	145	143	144
26	55	51	52	---	---	---	123	120	121	146	144	146
27	55	51	53	---	---	---	124	123	123	148	146	146
28	61	55	58	---	---	---	126	124	125	150	148	148
29	68	61	65	---	---	---	128	127	127	151	149	151
30	73	69	72	---	---	---	131	128	129	152	151	152
31	77	73	75	---	---	---	133	131	132	154	152	153
MONTH	145	51	97	84	74	80	133	97	109	154	133	140

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	157	154	156	174	170	172	73	60	67	56	52	55
2	157	156	157	174	173	174	59	54	56	58	53	56
3	157	156	157	175	174	175	55	47	52	59	56	57
4	158	157	158	176	175	175	51	42	46	61	58	60
5	158	158	158	176	174	175	42	41	42	64	61	62
6	158	158	158	176	174	174	44	42	43	67	64	66
7	161	158	159	175	174	174	44	43	43	70	68	69
8	161	160	160	175	175	175	48	43	45	73	69	71
9	164	161	161	175	175	175	55	48	53	74	73	73
10	164	161	162	175	171	173	55	53	54	76	74	75
11	164	161	163	174	169	172	57	55	56	79	77	78
12	165	163	164	174	173	173	56	55	56	78	77	78
13	164	162	164	174	172	174	59	56	58	78	77	78
14	165	162	164	174	98	123	63	59	61	79	77	78
15	165	162	164	99	79	89	66	63	65	79	73	77
16	194	164	167	80	41	53	66	61	64	86	75	81
17	165	164	165	43	39	40	61	52	58	86	83	84
18	166	165	165	51	43	48	51	47	49	84	80	82
19	166	164	164	53	51	52	48	47	48	92	84	86
20	164	163	164	55	51	53	49	48	48	93	90	91
21	165	164	165	53	50	51	49	48	49	91	88	90
22	167	166	166	62	53	59	54	49	50	89	82	86
23	168	167	167	59	57	58	55	52	53	101	82	90
24	169	168	168	61	59	60	52	49	51	102	96	99
25	169	165	167	62	61	61	50	48	50	103	100	101
26	167	165	166	66	63	64	70	45	49	101	95	98
27	168	166	167	78	67	73	49	46	47	97	94	96
28	171	168	169	88	78	83	52	47	49	99	96	97
29	---	---	---	92	88	90	52	50	51	98	91	94
30	---	---	---	93	91	92	54	51	52	94	90	91
31	---	---	---	91	74	83	---	---	---	115	91	104
MONTH	194	154	163	176	39	113	73	41	52	115	52	81

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	118	109	115	113	108	110	128	119	123	143	138	139
2	127	112	117	112	109	111	135	126	130	149	144	147
3	127	113	119	111	109	110	132	126	130	156	150	153
4	134	118	125	108	106	107	135	128	132	168	157	160
5	135	112	123	107	104	105	136	128	133	---	---	---
6	131	110	115	106	104	105	136	128	133	---	---	---
7	131	126	129	106	104	105	136	126	128	131	104	129
8	134	126	130	105	104	105	143	137	140	131	123	127
9	135	130	133	106	102	104	144	139	142	129	127	128
10	133	129	131	107	101	104	144	142	143	135	130	131
11	128	123	125	106	101	104	145	142	144	142	131	135
12	125	111	119	104	98	101	146	144	145	145	143	144
13	134	108	127	99	93	96	147	142	145	150	145	146
14	134	132	133	94	90	92	144	143	144	---	---	---
15	134	129	131	90	89	89	146	138	145	---	---	---
16	131	128	130	92	89	90	146	141	144	153	147	151
17	130	127	128	92	91	91	149	145	147	153	149	150
18	127	121	124	95	90	92	149	145	147	152	146	149
19	124	110	119	98	93	96	150	144	148	149	145	147
20	124	111	114	101	93	97	---	---	---	151	147	149
21	126	121	123	103	93	99	---	---	---	151	131	140
22	122	118	120	105	99	102	149	134	143	138	131	136
23	121	118	119	108	101	103	131	111	119	139	133	136
24	122	119	120	106	95	101	120	91	109	134	124	128
25	120	119	120	128	114	125	98	93	95	125	117	121
26	121	119	120	129	125	127	106	102	103	124	116	121
27	119	114	117	129	125	127	113	104	109	118	111	116
28	114	110	111	127	124	126	122	113	115	---	---	---
29	111	109	110	127	124	125	127	120	124	---	---	---
30	110	109	110	127	124	126	125	121	124	---	---	---
31	---	---	---	125	118	121	132	129	131	---	---	---
MONTH	135	108	122	129	89	106	150	91	132	168	104	138
YEAR	194	39	112									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	15.0	15.0	4.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
2	15.0	14.5	14.5	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
3	15.5	14.0	14.5	3.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
4	15.0	14.0	14.5	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
5	15.0	14.0	14.5	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
6	14.5	14.0	14.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
7	14.5	14.0	14.0	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
8	15.0	14.0	14.5	3.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
9	14.5	14.0	14.0	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
10	14.0	13.0	13.5	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
11	13.0	13.0	13.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
12	13.0	12.5	12.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
13	12.5	12.5	12.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14	12.5	11.5	12.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15	11.5	11.0	11.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
16	11.5	11.0	11.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
17	11.0	10.0	10.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
18	10.5	9.5	10.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
19	9.5	8.5	9.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
20	9.0	9.0	9.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
21	10.0	9.0	9.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
22	10.0	8.0	8.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
23	8.0	7.5	7.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
24	7.5	7.0	7.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
25	7.5	7.0	7.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
26	7.0	5.5	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
27	5.5	4.5	5.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
28	4.5	4.5	4.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
29	4.5	4.5	4.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
30	4.5	4.0	4.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
31	4.5	4.5	4.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	15.5	4.0	10.5	4.5	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0

01059400 ANDROSCOGGIN RIVER AT BRUNSWICK, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.5	9.0	8.0	8.5
2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	9.0	9.0	9.0
3	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.5	2.5	10.0	9.0	9.5
4	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.5	10.5	9.5	10.0
5	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.5	2.5	11.5	10.0	10.5
6	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.5	11.5	11.0	11.5
7	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.5	2.5	12.0	10.5	11.0
8	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.5	12.5	11.5	12.0
9	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.5	2.0	12.0	11.0	11.5
10	0.0	0.0	0.0	0.5	0.0	0.0	3.0	2.0	2.5	11.0	10.0	10.5
11	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.5	3.0	10.5	9.5	10.0
12	0.0	0.0	0.0	0.5	0.0	0.0	4.0	3.0	3.5	12.0	10.5	11.0
13	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.0	4.5	12.5	12.0	12.0
14	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.5	4.5	12.5	11.5	12.0
15	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.0	5.5	13.5	12.0	12.5
16	0.0	0.0	0.0	0.5	0.0	0.0	6.5	6.0	6.0	13.5	12.0	12.5
17	0.0	0.0	0.0	0.5	0.0	0.0	6.5	6.0	6.0	14.0	12.5	13.0
18	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.0	6.5	15.0	13.5	14.5
19	0.0	0.0	0.0	0.5	0.0	0.0	7.5	6.5	7.0	15.0	14.0	14.5
20	0.0	0.0	0.0	0.5	0.0	0.0	8.5	7.0	7.5	14.5	13.5	14.0
21	0.0	0.0	0.0	0.5	0.5	0.5	9.5	8.0	8.5	16.0	14.5	15.0
22	0.0	0.0	0.0	0.5	0.5	0.5	9.5	9.0	9.0	17.5	15.5	16.5
23	0.0	0.0	0.0	0.5	0.5	0.5	9.5	9.5	9.5	20.0	17.0	18.5
24	0.0	0.0	0.0	0.5	0.5	0.5	10.0	9.0	9.5	19.5	18.5	19.0
25	0.0	0.0	0.0	0.5	0.5	0.5	9.0	8.0	8.5	20.0	18.5	19.0
26	0.0	0.0	0.0	1.0	0.5	1.0	8.0	7.0	7.5	19.5	19.0	19.0
27	0.0	0.0	0.0	1.5	1.0	1.0	7.0	6.5	7.0	19.5	18.5	19.0
28	0.0	0.0	0.0	1.5	1.0	1.5	7.0	6.0	6.5	19.0	17.5	18.5
29	---	---	---	1.5	1.0	1.0	7.5	6.5	7.0	19.0	17.0	18.0
30	---	---	---	3.0	1.5	2.0	8.0	7.0	7.5	19.5	17.0	18.0
31	---	---	---	3.0	2.0	2.5	---	---	---	20.5	18.0	19.5
MONTH	0.0	0.0	0.0	3.0	0.0	0.5	10.0	1.5	5.5	20.5	8.0	14.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.5	19.5	20.0	21.0	20.0	20.5	23.5	22.0	23.0	20.5	19.5	20.0
2	19.5	18.5	19.0	22.0	20.5	21.0	24.5	22.5	23.5	21.0	19.5	20.0
3	18.5	17.5	18.0	22.5	21.0	21.5	24.5	22.0	23.5	21.0	20.0	20.5
4	17.5	17.0	17.0	22.0	21.0	21.5	24.5	22.5	23.5	22.0	19.5	20.5
5	17.5	17.0	17.0	22.5	20.5	21.5	24.5	23.0	23.5	20.5	18.0	20.0
6	17.5	17.0	17.0	22.0	21.0	21.5	24.5	23.5	24.0	21.0	17.5	19.5
7	17.0	16.5	17.0	22.5	21.0	22.0	24.5	23.0	23.5	21.0	19.5	20.0
8	17.0	16.5	16.5	22.0	21.0	21.5	25.0	22.5	24.0	21.5	19.5	20.5
9	17.5	16.0	16.5	22.5	20.5	21.5	25.0	23.5	24.0	20.5	19.5	20.0
10	17.0	16.5	17.0	23.0	20.5	21.5	24.0	22.5	23.0	20.0	19.5	20.0
11	16.5	15.5	15.5	23.0	21.0	22.0	23.0	22.0	22.5	20.0	19.0	19.5
12	16.5	15.5	16.0	22.5	21.5	22.0	22.0	22.0	22.0	19.0	17.5	18.5
13	18.0	16.0	17.0	21.5	21.0	21.5	23.0	21.5	22.0	19.0	17.5	18.0
14	18.5	17.5	18.0	22.5	21.0	21.5	23.0	22.0	22.5	18.5	17.5	18.0
15	18.5	17.0	18.0	24.0	22.0	23.0	23.5	21.5	22.5	18.5	17.0	17.5
16	19.0	17.5	18.0	25.0	22.5	23.5	22.5	21.5	22.5	17.5	17.0	17.5
17	19.0	17.5	18.0	25.0	24.0	24.5	22.5	21.5	22.0	17.0	16.5	17.0
18	18.5	17.0	17.5	26.5	24.5	25.0	22.0	21.0	21.5	17.0	16.5	16.5
19	19.0	17.5	18.0	26.5	24.5	25.0	22.0	21.0	21.5	17.5	16.5	17.0
20	20.0	17.5	19.0	26.5	24.5	25.0	22.0	20.5	21.5	17.0	16.0	16.5
21	19.5	19.0	19.0	27.0	25.0	25.5	21.0	20.0	20.5	15.5	14.0	14.5
22	19.0	18.0	18.5	25.5	24.0	25.0	20.0	19.5	20.0	15.0	14.0	14.5
23	19.0	18.0	18.5	24.0	22.5	23.5	20.0	19.0	19.5	15.5	14.0	14.5
24	20.0	19.0	19.5	24.0	22.0	23.0	20.0	19.5	19.5	15.0	14.5	15.0
25	19.5	19.0	19.5	23.0	22.0	22.5	19.5	19.0	19.0	15.0	14.0	14.5
26	19.0	18.5	18.5	23.0	22.0	22.5	19.5	19.0	19.0	14.0	14.0	14.0
27	19.5	18.0	19.0	23.0	21.0	22.0	20.5	18.5	19.5	14.5	14.0	14.0
28	20.5	19.0	20.0	23.5	21.0	22.5	22.0	19.5	20.5	---	---	---
29	20.5	19.0	20.0	24.0	22.0	22.5	23.5	20.5	22.0	---	---	---
30	20.0	18.5	19.5	22.5	22.0	22.5	23.0	21.5	22.5	---	---	---
31	---	---	---	24.0	22.0	22.5	22.5	20.5	21.5	---	---	---
MONTH	20.5	15.5	18.0	27.0	20.0	22.5	25.0	18.5	22.0	22.0	14.0	17.5
YEAR	27.0	0.0	10.0									

Reservoirs in Androscoggin River basin

01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 ft^3 (37,926,000 m^3) in top 4.0 ft (1.22 m) of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.

01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 ft^3 (237,000,000 m^3) between gage heights 8.3 and 20.5 ft (2.53 and 6.25 m). Gage-height record furnished by Union Water Power Co.

01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 ft^3 (161,180,000 m^3) between gage heights 3.0 and 20.5 ft (0.91 and 6.25 m). Gage-height record furnished by Union Water Power Co.

01052000 AZISCOHOS LAKE on Magalloway River, in Lincoln Township, 3 mi (5 km) east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 ft^3 (271,700,000 m^3) between elevations 1,490.0 and 1,535.0 ft (454.15 and 467.87 m). Elevation record furnished by Union Water Power Co.

01053000 UMBAGOG LAKE on Androscoggin River, at Errol Dam, 0.6 mi (1.0 km) northeast of Errol, N.H., used for power, has usable capacity of 3,080,160,000 ft^3 (87,230,100 m^3) between gage heights 5.5 and 15.0 ft (1.68 and 4.57 m). Gage-height record furnished by Union Water Power Co.

01056000 GULF ISLAND POND on Androscoggin River, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 ft^3 (31,150,000 m^3) in top 10 ft (3 m) of pond below elevation 262.0 ft (79.86 m). Elevation record furnished by Central Maine Power Co.

01056500 LAKE AUBURN on outlet stream to Androscoggin River, at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 ft^3 (16,430,000 m^3) between elevations 254.7 and 260.7 ft (77.63 and 79.46 m). Elevation record furnished by Auburn Water District.

01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River, at Oxford, Maine used for process water, has usable capacity of 950,000,000 ft^3 (26,900,000 m^3) between gage heights 95.0 and 100.0 ft (28.96 and 30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE
SEPT. 30, 1976	1061	6048	5538	8410
OCT. 31	863	7795	5538	9469
NOV. 30	656	7688	5087	8650
DEC. 31	418	5728	4565	8008
JAN. 31, 1977	308	3382	3160	6604
FEB. 28	167	1499	2540	4160
MAR. 31	502	1665	3455	4635
APR. 30	1380	7188	5368	8710
MAY 31	1366	8082	5500	9531
JUNE 30	1380	8370	5652	9748
JULY 31	1145	7474	5087	8290
AUG. 31	1212	7474	4491	7206
SEPT. 30	1466	5870	5331	8125

DATE	UMBAGOG LAKE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1976	2167	2228	532	1780
OCT. 31	2534	2449	556	1590
NOV. 30	2205	2461	544	1514
DEC. 31	1884	2065	556	1476
JAN. 31, 1977	1920	2368	568	1438
FEB. 28	1939	2219	568	1381
MAR. 31	1416	2501	580	1685
APR. 30	2398	2486	616	1913
MAY 31	2072	2388	544	1856
JUNE 30	3041	2272	544	1894
JULY 31	2091	2217	452	1875
AUG. 31	2456	2307	408	1761
SEPT. 30	2944	2438	408	1666

NOTE.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

01059800 COLLYER BROOK NEAR GRAY, ME

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, Hydrologic Unit 01060001, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.9 mi² (36.0 km²).

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (54.9 m), from topographic map.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--13 years, 27.4 ft³/s (0.776 m³/s), 26.77 in/yr (680 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) Dec. 27, 1969, gage height, 3.48 ft (1.061 m); maximum gage height, 4.30 ft (1.311 m) Feb. 14, 1972 (backwater from ice); minimum daily discharge, 6.4 ft³/s (0.18 m³/s) Jan. 29, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 175 ft³/s (4.96 m³/s) and maximums (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft³/s)	(m³/s)	(ft)	(m)			(ft³/s)	(m³/s)	(ft)	(m)
Mar. 13	-	*750	21.2	-	-	Apr. 1	-	250	7.08	-	-

Minimum daily discharge, 10 ft³/s (0.283 m³/s), Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	31	13	15	18	21	195	32	18	16	12	13
2	13	24	12	15	17	20	130	30	21	16	14	13
3	13	21	12	16	16	19	160	29	21	15	14	13
4	13	22	12	16	16	18	165	26	21	15	13	13
5	13	30	12	16	15	21	91	27	25	15	13	13
6	13	23	12	16	15	21	97	30	26	15	21	13
7	13	20	23	16	14	20	70	29	26	14	15	12
8	13	17	40	16	14	31	59	26	27	15	14	12
9	14	10	30	16	14	56	55	26	21	16	14	12
10	22	14	23	16	13	70	51	84	19	16	17	12
11	18	13	19	16	13	150	48	50	26	15	15	13
12	15	13	17	17	13	300	51	33	27	15	15	12
13	14	13	15	17	14	600	54	29	21	17	15	14
14	13	13	15	17	15	350	53	26	19	17	16	30
15	13	13	14	17	16	200	44	24	32	15	15	16
16	12	13	14	17	17	120	42	23	20	14	14	14
17	13	12	14	17	17	94	41	22	18	14	20	14
18	13	12	13	17	17	87	38	21	19	14	15	16
19	13	12	13	17	16	66	37	21	20	13	14	14
20	12	12	13	17	16	67	36	21	19	13	13	15
21	94	12	14	17	16	64	35	20	23	13	13	29
22	96	12	15	17	16	54	35	20	27	15	17	18
23	40	12	16	17	16	48	48	19	26	12	16	15
24	26	12	16	17	15	44	68	18	20	12	15	14
25	29	12	16	17	16	47	85	18	19	14	15	14
26	33	12	16	17	17	50	51	17	20	15	13	24
27	25	12	15	18	18	60	43	17	19	13	13	48
28	19	13	16	19	20	80	40	18	17	12	13	19
29	16	13	17	20	---	110	36	21	17	12	13	16
30	15	13	16	20	---	160	33	18	17	12	12	15
31	22	---	15	19	---	185	---	18	---	12	13	---
TOTAL	690	461	508	525	440	3233	1991	813	651	442	452	496
MEAN	22.3	15.4	16.4	16.9	15.7	104	66.4	26.2	21.7	14.3	14.6	16.5
MAX	96	31	40	20	20	600	195	84	32	17	21	48
MIN	12	10	12	15	13	18	33	17	17	12	12	12
CFSM	1.60	1.11	1.18	1.22	1.13	7.48	4.78	1.89	1.56	1.03	1.05	1.19
IN.	1.85	1.23	1.36	1.40	1.18	8.65	5.33	2.18	1.74	1.18	1.21	1.33

CAL YR 1976 TOTAL 10040 MEAN 27.4 MAX 348 MIN 10 CFSM 1.97 IN 26.87
WTR YR 1977 TOTAL 10702 MEAN 29.3 MAX 600 MIN 10 CFSM 2.11 IN 28.64

NOTE.--Doubtful or no gage-height record Oct. 1 to Apr. 5.

01060000 ROYAL RIVER AT YARMOUTH, ME

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, Hydrologic Unit 01060001, on right bank 150 ft (46 m) upstream from lower highway bridge in Yarmouth.

DRAINAGE AREA.--142 mi^2 (368 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Some diurnal fluctuation at low flow caused by mill upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--28 years, 274 ft^3/s (7.760 m^3/s), 26.20 in/yr (665 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s (326 m^3/s) Mar. 13, 1977, gage height, 8.46 ft (2.579 m), from rating curve extended above 5,200 ft^3/s (147 m^3/s); minimum, 4.4 ft^3/s (0.12 m^3/s) Oct. 17, 18, 1962, gage height, 0.71 ft (0.216 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.48 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 13	1300	a*11500	326	*8.46	2.579	Apr. 1	0100	2390	67.7	4.08	1.244

a From rating curve extended above 5,200 ft^3/s (147 m^3/s).

Minimum discharge, 34 ft^3/s (0.96 m^3/s) Aug. 1, gage height, 1.02 ft (0.311 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	356	100	75	75	500	2220	243	73	120	42	51
2	48	290	98	74	72	470	1450	220	77	101	53	51
3	47	213	93	74	70	440	1650	209	93	89	62	51
4	44	221	90	74	69	381	1770	189	101	81	55	51
5	43	335	88	74	68	498	1240	175	103	76	47	51
6	44	287	87	74	68	664	1260	179	149	72	45	50
7	44	231	275	74	67	628	965	192	148	67	68	49
8	46	186	500	74	66	521	733	175	161	58	75	48
9	76	156	370	74	66	826	626	160	183	69	64	46
10	227	138	280	75	66	1120	539	479	145	84	55	44
11	147	127	180	79	65	1290	489	796	129	73	56	44
12	87	116	135	82	65	2990	456	467	178	66	63	44
13	72	104	105	83	68	9980	497	311	187	68	63	45
14	68	104	93	82	74	7340	506	238	147	81	60	70
15	64	104	84	82	85	3720	448	196	131	76	61	130
16	61	102	80	81	95	2160	381	167	126	69	61	87
17	57	97	81	80	105	1390	340	160	107	62	61	68
18	60	99	82	79	105	1010	311	148	100	61	82	65
19	61	98	80	79	100	839	284	136	104	56	78	68
20	59	97	79	78	98	750	258	130	106	51	65	70
21	1030	89	79	77	95	773	240	122	112	51	58	105
22	1080	82	78	77	92	695	228	114	185	50	59	155
23	424	88	77	76	91	584	301	105	309	67	82	115
24	236	82	76	75	90	507	513	97	249	60	83	87
25	292	84	76	74	100	558	975	91	168	54	79	72
26	331	87	76	74	125	848	756	85	171	57	72	90
27	243	90	75	76	230	1150	477	78	178	59	66	570
28	183	97	75	77	460	1500	379	72	140	55	61	470
29	153	105	75	78	---	1650	328	78	117	49	55	300
30	135	110	75	79	---	1790	275	89	121	46	53	180
31	155	---	75	78	---	2110	---	80	---	45	51	---
TOTAL	5669	4375	3817	2388	2830	49682	20895	5981	4298	2073	1935	3327
MEAN	183	146	123	77.0	101	1603	697	193	143	66.9	62.4	111
MAX	1080	356	500	83	460	9980	2220	796	309	120	83	570
MIN	43	82	75	74	65	381	228	72	73	45	42	44
CFSM	1.29	1.03	.87	.54	.71	11.3	4.91	1.36	1.01	.47	.44	.78
IN.	1.49	1.15	1.00	.63	.74	13.02	5.47	1.57	1.13	.54	.51	.87

CAL YR 1976 TOTAL 100721 MEAN 275 MAX 3250 MIN 41 CFSM 1.94 IN 26.39
WTR YR 1977 TOTAL 107270 MEAN 294 MAX 9980 MIN 42 CFSM 2.07 IN 28.10

NOTE.--No gage-height record Aug. 24 to Sept. 30.

01063100 CROOKED RIVER NEAR NAPLES, ME

LOCATION.--Lat 43°58'44", long 70°33'50", Cumberland County, Hydrologic Unit 01060001, downstream side of left bridge pier of bridge on State Highway 11, near Naples, ME.

DRAINAGE AREA.--150 mi² (388 km²).

PERIOD OF RECORD.--May 24, 1975 to current year (seasonal records only).

GAGE.--Water-stage recorder. Datum of gage is 258.31 ft (78.732 m) above mean sea level.

REMARKS.--Records fair. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 2,230 ft³/s (63.2 m³/s), Apr. 2, 1976, gage height, 12.08 ft (3.682 m); minimum, 38 ft³/s (1.08 m³/s), Aug. 10, Sept. 12, 1977, gage height, 0.87 ft (0.265 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 1,300 ft³/s (36.8 m³/s) Mar. 31, gage height, 8.04 ft (2.451 m); minimum, 38 ft³/s (1.08 m³/s) Aug. 10, Sept. 12, gage height, 0.87 ft (0.265 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	334						396	66	116	50	53
2	107	344						358	95	108	53	52
3	101	326						337	170	100	50	50
4	94	312						314	145	94	49	50
5	91	316						295	130	89	48	49
6	88	336						291	120	83	50	47
7	86	417						281	115	77	50	45
8	85	417						267	165	75	48	44
9	103	373						253	135	75	43	43
10	249	324						304	125	73	41	41
11	320	285						322	123	70	46	40
12	288	250						284	143	71	46	38
13	250	232						250	176	76	49	42
14	205	216						227	170	73	50	70
15	182	209						210	161	70	52	150
16	172	202						203	164	69	52	135
17	161	193						185	146	68	76	125
18	148	187						175	125	69	89	110
19	136	183						160	124	65	88	95
20	132	179						150	121	64	81	85
21	472	173						135	126	65	76	75
22	861	166						125	149	71	74	350
23	843	159						115	154	64	73	250
24	776	155						105	135	60	74	170
25	602	154						90	124	59	75	120
26	492	150						82	127	60	66	90
27	438	149						73	121	57	64	900
28	393	148						98	112	55	62	400
29	356	159					514	120	111	55	61	490
30	314	165			------		446	95	118	52	57	400
31	296	------			------		------	80	------	52	55	------
TOTAL	8959	7213						6380	3996	2235	1848	4609
MEAN	289	240						206	133	72.1	59.6	154
MAX	861	417						396	176	116	89	900
MIN	85	148						73	66	52	41	38
CFSM	1.93	1.60						1.37	.89	.48	.40	1.03
IN.	2.22	1.79						1.58	.99	.55	.46	1.14

01064000 PRESUMPSCOT RIVER AT OUTLET OF SEBAGO LAKE, ME

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, Hydrologic Unit 01060001, at dam of hydroelectric plant at Eel Weir Falls 1.0 mi (1.6 km) downstream from lake outlet.

DRAINAGE AREA.--436 mi² (1,129 km²).

PERIOD OF RECORD.--January 1887 to current year.

REVISED RECORDS.--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 ft³/s (1.13 m³/s), not included in figures of daily discharge. Flow regulated by Long Pond and Sebago Lake, surface area, 45.6 mi² (118 km²), which have a combined usable capacity of 11,000,000,000 ft³ (312,000,000 m³).

COOPERATION.--Records furnished by S. D. Warren Co.

AVERAGE DISCHARGE.--90 years, 661 ft³/s (18.7 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585	633	658	627	831	655	670	1150	825	541	758	554
2	540	633	658	624	819	655	655	1150	812	583	758	554
3	540	633	658	632	819	655	670	1150	812	583	758	554
4	540	644	644	632	819	655	670	1150	812	583	758	554
5	540	633	644	632	819	655	670	1150	812	583	758	490
6	540	633	644	632	819	655	670	1150	805	583	758	490
7	546	633	644	632	806	655	670	1150	805	583	758	490
8	546	633	658	632	806	655	670	1150	812	583	758	490
9	540	633	658	632	806	655	819	1060	812	583	758	490
10	583	633	658	632	806	648	833	1170	812	583	758	480
11	726	644	644	632	806	648	985	1160	670	548	758	480
12	723	644	644	632	806	655	973	1320	670	772	758	480
13	723	644	624	632	806	414	985	1330	575	758	758	480
14	655	644	670	632	806	35	985	1330	589	732	732	480
15	651	644	665	632	806	102	973	1330	575	772	758	480
16	670	644	660	632	806	623	973	1150	575	758	758	480
17	670	644	660	632	806	818	973	1150	575	758	758	480
18	647	644	658	632	806	831	1150	1150	554	758	655	480
19	647	633	670	632	806	811	1150	985	554	758	655	480
20	633	644	670	632	806	818	1140	818	554	758	655	480
21	633	644	670	632	655	818	806	818	554	758	655	480
22	633	644	670	632	655	818	806	818	554	752	655	480
23	633	640	670	632	655	696	806	818	554	778	655	480
24	633	644	670	632	655	831	806	818	554	767	655	480
25	618	644	670	632	616	818	1150	818	554	767	655	480
26	622	645	670	632	655	818	1150	818	554	767	655	480
27	621	633	639	632	655	818	1140	818	554	735	655	490
28	633	644	647	741	655	670	1140	818	554	762	655	480
29	621	644	647	819	---	670	1140	818	554	762	546	480
30	616	644	647	819	---	670	1140	818	554	762	546	498
31	616	---	647	806	---	670	---	818	---	762	546	---
TOTAL	19124	19196	20336	20236	21411	20595	27368	32151	19550	21532	21703	14774
MEAN	617	640	656	653	765	664	912	1037	652	695	700	492
MAX	726	645	670	819	831	831	1150	1330	825	778	758	554
MIN	540	633	624	624	616	35	655	818	554	541	546	480
†	739.3	713.8	713.8	628.8	484.4	994.2	997.8	1232.2	1079.2	900.8	620.3	535.4

CAL YR 1976 TOTAL 289689.00 MEAN 792 MAX 1110 MIN .00
WTR YR 1977 TOTAL 257976.00 MEAN 707 MAX 1330 MIN 35

† Monthend contents, in millions of cubic feet, in Sebago Lake; records furnished by S.D. Warren Co.

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME

LOCATION.--Lat 43°43'28", long 70°18'12", Cumberland County, Hydrologic Unit 01080001, on right bank, 50 ft (15 m) upstream from bridge on Blackstrap Road, 0.1 mi (0.2 km) downstream from Maine Turnpike, 0.6 mi (1.0 km) downstream from Meader Brook, 0.9 mi (1.4 km) upstream from Piscataqua River, and 1.5 mi (2.4 km) south of West Falmouth.

DRAINAGE AREA.--590 mi^2 (1,528 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.15 ft (3.399 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Sebago Lake and many small powerplants upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) Mar. 14, 1977, gage height, 21.11 ft (6.434 m); minimum daily, 39 ft^3/s (1.10 m^3/s) July 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) Mar. 14, gage height, 21.11 ft (6.434 m); minimum daily, 90 ft^3/s (2.55 m^3/s) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	721	1200	833	790	967	1510	2810	1410	852	735	790	611
2	707	1020	944	796	965	1400	2000	1340	768	671	811	568
3	584	935	803	756	933	1290	2610	1350	861	500	802	623
4	520	981	766	790	923	1240	2550	1310	833	129	808	559
5	654	1040	790	836	914	1650	2050	1290	884	97	802	583
6	833	990	773	809	932	1850	2210	1280	880	90	738	559
7	605	971	1050	839	919	1570	1650	1280	924	107	799	521
8	588	944	1680	827	913	1470	1740	1260	868	500	802	541
9	710	941	1090	787	900	1430	1730	1230	924	645	799	538
10	911	908	941	842	889	1660	1590	1730	865	677	775	509
11	806	890	908	1140	890	2210	1610	2050	865	753	805	512
12	860	890	836	977	913	2270	1620	1570	827	718	796	526
13	818	872	824	896	908	2450	1740	1540	928	830	793	526
14	956	854	863	866	1010	9760	1720	1530	620	912	765	608
15	854	860	796	848	1040	7890	1650	1470	665	880	787	586
16	752	860	796	830	1030	4080	1580	1440	645	808	756	503
17	735	854	809	833	983	3230	1560	1310	651	805	756	518
18	738	848	815	833	959	2530	1520	1280	651	796	784	535
19	796	860	803	769	1020	2050	1590	1260	660	778	738	541
20	742	803	815	812	935	1750	1570	972	626	778	706	565
21	2300	863	860	834	956	1590	1510	909	721	793	634	608
22	1740	860	784	818	912	1680	1070	953	759	784	694	648
23	1170	827	845	749	823	1480	1110	899	712	759	775	553
24	1070	851	799	739	813	1670	1480	947	700	750	668	506
25	1230	878	796	804	1130	1510	2060	880	662	799	662	518
26	1160	824	793	853	1830	1430	1830	874	724	802	688	640
27	1110	842	796	824	1520	1720	1650	896	706	688	677	924
28	1060	842	824	808	1530	2000	1550	896	694	765	691	729
29	1010	860	836	786	---	2490	1500	877	685	778	637	668
30	863	920	806	948	---	2860	1440	874	680	771	595	665
31	941	---	787	969	---	3170	---	979	---	778	601	---
TOTAL	28544	27088	26861	26008	28457	74890	52300	37886	22840	20676	22934	17491
MEAN	921	903	866	839	1016	2416	1743	1222	761	667	740	583
MAX	2300	1200	1680	1140	1830	9760	2810	2050	928	912	811	924
MIN	520	803	766	739	813	1240	1070	874	620	90	595	503

CAL YR 1976 TOTAL 415583 MEAN 1135 MAX 3540 MIN 39
WTR YR 1977 TOTAL 385975 MEAN 1057 MAX 9760 MIN 90

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-74; current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to current year.
pH: July 1976 to current year.
WATER TEMPERATURES: July 1976 to current year.
DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1976.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A dissolved oxygen of 1.6 mg/L was observed July 9, 1976.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 296 micromhos Sept. 16; minimum, 30 micromhos June 17-24, 1977.
pH: Maximum, 9.4 units Dec. 7, 1977; minimum, 6.1 units May 18-21, 1977.
WATER TEMPERATURES: Maximum, 29.0°C July 21, 1977; minimum, 0.0°C on many days during winter periods.
DISSOLVED OXYGEN: Maximum, 12.7 mg/L Mar. 22, 1977; minimum, 4.5 mg/L July 18, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 250 micromhos Feb. 25; minimum, 30 micromhos June 17-24.
pH: Maximum, 9.4 units Dec. 7; minimum, 6.1 units May 18-21.
WATER TEMPERATURES: Maximum, 29.0°C July 21; minimum, 0.0°C on many days during winter period.
DISSOLVED OXYGEN: Maximum, 12.7 mg/L Mar. 22; minimum, 5.7 mg/L July 7.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	125	106	115	112	99	106	104	76	87	116	100	109
2	126	110	117	121	111	115	113	88	99	117	100	111
3	136	111	123	117	104	111	112	87	102	116	90	109
4	149	115	124	122	103	113	104	92	98	142	91	128
5	128	91	116	117	105	109	104	93	97	130	100	112
6	114	93	104	115	105	112	105	95	98	111	100	105
7	152	97	115	117	108	113	150	88	119	110	91	101
8	135	114	128	116	105	111	108	87	101	136	101	118
9	127	114	119	109	103	106	110	99	105	105	90	98
10	115	104	108	110	99	104	116	102	107	125	94	109
11	120	111	115	109	98	102	117	69	102	150	100	113
12	117	104	112	101	93	97	118	97	111	124	100	113
13	121	106	113	105	93	98	119	109	113	120	90	103
14	106	87	97	109	95	101	115	99	106	110	89	101
15	114	86	98	123	95	107	121	105	112	111	99	103
16	108	97	102	110	100	105	135	100	113	115	89	102
17	109	98	104	108	95	102	144	91	108	119	91	106
18	109	92	101	124	86	100	110	100	103	125	99	108
19	94	84	90	115	96	103	115	92	106	121	90	103
20	108	91	98	119	106	113	130	90	105	126	89	111
21	104	67	86	114	96	103	141	101	112	116	89	104
22	92	86	89	112	100	105	107	70	95	115	89	100
23	99	88	94	111	100	106	117	70	107	116	99	109
24	---	---	---	104	94	98	122	90	106	125	108	115
25	---	---	---	100	94	97	97	81	90	108	88	100
26	---	---	---	104	92	98	96	80	89	149	88	105
27	---	---	---	100	88	96	105	90	96	129	88	104
28	101	87	94	102	84	96	101	90	94	123	78	101
29	101	88	94	112	97	105	104	91	97	152	108	123
30	116	101	108	100	83	94	110	90	101	115	88	99
31	116	107	111	---	---	---	115	100	105	103	88	96
MONTH	152	67	106	124	83	104	150	69	103	152	78	107

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	101	78	85	118	105	109	77	68	73	---	---	---
2	89	78	83	122	105	110	79	66	74	---	---	---
3	84	78	81	128	105	116	86	65	74	---	---	---
4	84	67	77	167	96	114	75	65	70	---	---	---
5	90	67	79	160	106	123	91	64	76	---	---	---
6	94	77	84	118	105	111	79	63	74	---	---	---
7	104	81	97	121	105	113	97	63	75	---	---	---
8	103	87	98	126	95	115	79	62	73	---	---	---
9	103	77	96	130	115	121	75	61	66	---	---	---
10	112	97	103	199	106	127	74	60	67	---	---	---
11	103	87	98	117	94	102	74	59	68	---	---	---
12	107	87	97	105	94	99	74	59	69	---	---	---
13	147	78	112	220	94	134	94	65	81	---	---	---
14	124	97	111	---	---	---	117	92	105	---	---	---
15	137	117	125	---	---	---	105	79	97	---	---	---
16	118	106	110	---	---	---	108	78	99	---	---	---
17	109	96	104	83	68	76	101	76	86	---	---	---
18	119	96	105	79	67	73	102	85	97	71	60	64
19	106	96	101	93	68	83	97	93	95	67	60	65
20	116	96	108	106	86	90	98	85	95	81	50	67
21	119	86	107	100	85	92	103	91	95	83	70	75
22	133	86	111	95	84	89	133	99	118	86	71	76
23	147	116	132	101	84	91	120	89	105	83	40	65
24	142	107	120	89	80	86	113	96	103	116	67	79
25	250	106	162	94	82	88	112	95	104	151	51	78
26	116	106	109	98	81	91	107	93	98	93	50	76
27	121	105	114	96	81	88	98	82	92	87	82	85
28	121	105	113	93	80	87	58	52	54	84	70	77
29	---	---	---	94	79	86	92	56	86	84	70	77
30	---	---	---	83	69	78	---	---	---	87	80	84
31	---	---	---	80	68	72	---	---	---	85	71	78
MONTH	250	67	104	220	67	99	133	52	85	151	40	75

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	95	82	88	---	---	---	---	---	---	---	---	---
2	97	70	83	---	---	---	---	---	---	---	---	---
3	86	73	80	---	---	---	95	69	85	96	87	90
4	87	71	79	---	---	---	91	83	86	108	90	99
5	86	70	78	---	---	---	98	87	90	105	90	95
6	87	71	79	---	---	---	---	---	---	131	76	96
7	87	70	78	---	---	---	---	---	---	123	84	98
8	97	80	88	---	---	---	---	---	---	121	91	103
9	85	65	75	---	---	---	---	---	---	138	85	108
10	94	61	78	---	---	---	---	---	---	118	101	109
11	77	51	64	---	---	---	---	---	---	110	94	102
12	57	43	50	---	---	---	92	80	86	109	80	100
13	65	50	58	---	---	---	88	70	80	109	85	99
14	84	50	67	---	---	---	98	76	87	130	100	111
15	76	45	60	---	---	---	78	70	73	111	94	101
16	45	31	38	---	---	---	85	71	76	140	80	99
17	45	30	38	---	---	---	85	73	79	111	101	107
18	45	30	38	---	---	---	90	74	78	118	101	110
19	37	30	34	---	---	---	85	76	79	130	89	107
20	37	30	34	---	---	---	92	80	84	131	75	98
21	65	30	48	---	---	---	95	87	92	141	81	106
22	37	30	34	---	---	---	97	80	90	161	80	106
23	37	30	34	85	62	78	86	73	79	158	98	127
24	40	30	35	81	64	76	96	82	88	155	94	126
25	---	---	---	80	72	76	96	82	88	125	91	118
26	---	---	---	83	70	76	98	87	92	149	91	118
27	---	---	---	104	68	87	96	82	88	128	89	103
28	---	---	---	96	69	78	96	82	87	145	105	123
29	---	---	---	84	72	77	103	88	96	165	110	125
30	---	---	---	94	76	87	131	71	94	161	104	127
31	---	---	---	---	---	---	104	79	95	---	---	---
MONTH	97	30	60	104	62	79	131	69	86	165	75	108
YEAR	250	30	96									

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	6.8	6.8	6.8	6.7	6.8	6.9	6.7	6.8	6.7	6.6	6.6
2	6.9	6.8	6.8	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.6	6.6
3	6.8	6.8	6.8	6.8	6.7	6.8	6.9	6.8	6.8	6.7	6.5	6.6
4	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.6	6.8
5	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.8	6.8	6.8	6.6	6.7
6	6.8	6.7	6.8	6.8	6.8	6.8	6.9	6.8	6.8	6.7	6.6	6.7
7	7.0	6.7	6.8	6.9	6.8	6.8	9.4	6.8	7.1	6.7	6.6	6.7
8	6.9	6.7	6.8	6.9	6.8	6.8	7.1	6.8	6.9	6.8	6.6	6.7
9	7.2	6.7	6.8	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.6	6.6
10	6.8	6.6	6.7	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.6	6.7
11	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.6	6.8	6.9	6.6	6.7
12	6.8	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8	6.8	6.7	6.8
13	7.0	6.8	6.9	6.8	6.7	6.8	7.0	6.8	6.9	6.8	6.6	6.7
14	7.0	6.8	6.8	6.9	6.8	6.8	6.9	6.9	6.9	6.8	6.7	6.7
15	6.9	6.8	6.9	6.9	6.8	6.9	6.9	6.6	6.8	6.8	6.7	6.8
16	6.9	6.8	6.8	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.7	6.8
17	6.8	6.7	6.8	6.9	6.7	6.8	6.7	6.6	6.6	6.8	6.7	6.7
18	6.8	6.7	6.8	6.8	6.7	6.8	6.7	6.6	6.7	6.8	6.6	6.7
19	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8	6.8	6.6	6.7
20	6.7	6.6	6.7	6.9	6.8	6.8	6.8	6.6	6.7	6.8	6.7	6.8
21	7.6	6.5	6.7	6.9	6.8	6.9	6.8	6.6	6.7	6.8	6.6	6.7
22	6.6	6.5	6.6	6.9	6.7	6.8	6.8	6.5	6.7	6.8	6.7	6.8
23	6.7	6.5	6.6	6.8	6.7	6.8	6.8	6.6	6.8	6.9	6.7	6.8
24	---	---	---	6.8	6.7	6.7	6.8	6.7	6.8	6.9	6.7	6.8
25	---	---	---	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.7	6.8
26	---	---	---	6.8	6.7	6.7	6.7	6.6	6.7	6.9	6.6	6.8
27	---	---	---	6.8	6.7	6.7	6.7	6.6	6.7	6.9	6.7	6.8
28	6.8	6.7	6.7	6.8	6.6	6.7	6.7	6.5	6.6	6.9	6.7	6.8
29	6.8	6.7	6.7	6.8	6.7	6.7	6.7	6.6	6.7	6.9	6.8	6.9
30	6.8	6.7	6.7	6.8	6.7	6.7	6.7	6.6	6.6	6.9	6.7	6.8
31	6.8	6.7	6.8	---	---	---	6.7	6.6	6.7	6.9	6.7	6.8
MONTH	7.6	6.5	6.8	6.9	6.6	6.8	9.4	6.5	6.8	6.9	6.5	6.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.9	6.6	6.8	6.8	6.7	6.7	6.7	6.6	6.7	---	---	---
2	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.6	6.7	---	---	---
3	6.9	6.7	6.8	6.8	6.7	6.8	7.0	6.7	6.8	---	---	---
4	6.8	6.8	6.8	6.8	6.6	6.8	6.7	6.6	6.7	---	---	---
5	6.9	6.8	6.9	6.9	6.6	6.7	6.8	6.6	6.7	---	---	---
6	6.9	6.8	6.9	6.8	6.7	6.8	6.8	6.7	6.7	---	---	---
7	7.0	6.8	6.9	6.8	6.7	6.8	6.8	6.5	6.7	---	---	---
8	7.1	6.9	7.0	6.9	6.7	6.8	6.8	6.7	6.8	---	---	---
9	6.9	6.8	6.9	6.9	6.7	6.9	6.9	6.7	6.8	---	---	---
10	6.9	6.8	6.8	7.0	6.8	6.9	6.8	6.7	6.8	---	---	---
11	6.8	6.8	6.8	6.9	6.6	6.7	6.9	6.7	6.8	---	---	---
12	6.8	6.8	6.8	6.7	6.6	6.6	6.8	6.7	6.8	---	---	---
13	6.9	6.8	6.9	7.3	6.6	6.9	6.8	6.7	6.7	---	---	---
14	7.0	6.8	6.9	---	---	---	6.9	6.8	6.8	---	---	---
15	7.0	6.9	6.9	---	---	---	6.9	6.7	6.8	---	---	---
16	6.9	6.8	6.8	---	---	---	6.9	6.8	6.8	---	---	---
17	6.9	6.8	6.8	6.7	6.6	6.7	6.9	6.8	6.9	---	---	---
18	6.9	6.7	6.8	6.8	6.7	6.7	6.9	6.7	6.8	6.4	6.1	6.3
19	6.8	6.8	6.8	6.9	6.7	6.8	6.9	6.8	6.9	6.4	6.1	6.2
20	6.9	6.8	6.8	6.9	6.8	6.9	6.9	6.7	6.8	6.4	6.1	6.3
21	7.0	6.8	6.9	7.0	6.8	6.9	6.9	6.8	6.9	6.3	6.1	6.2
22	7.0	6.8	6.9	7.0	6.7	6.8	6.9	6.4	6.6	6.4	6.2	6.3
23	7.1	6.9	6.9	6.9	6.8	6.8	7.0	6.2	6.6	6.6	6.2	6.4
24	6.9	6.8	6.9	6.9	6.8	6.8	7.1	6.9	7.0	9.0	6.4	6.7
25	6.9	6.7	6.8	6.9	6.8	6.9	7.0	6.9	6.9	6.8	6.4	6.7
26	7.0	6.6	6.7	6.9	6.9	6.9	7.0	6.7	6.9	7.0	6.5	6.7
27	6.8	6.6	6.7	7.0	6.9	6.9	6.9	6.6	6.8	7.1	6.5	6.8
28	6.8	6.6	6.7	7.0	6.8	6.9	7.0	6.6	6.8	7.0	6.9	7.0
29	---	---	---	6.9	6.7	6.8	7.0	6.3	6.7	7.0	6.9	7.0
30	---	---	---	6.8	6.7	6.7	---	---	---	7.0	6.9	7.0
31	---	---	---	6.8	6.6	6.7	---	---	---	7.1	6.9	7.0
MONTH	7.1	6.6	6.8	7.3	6.6	6.8	7.1	6.2	6.8	9.0	6.1	6.6

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	6.9	7.0	6.8	6.7	6.8	---	---	---	---	---	---
2	7.0	6.9	7.0	6.9	6.6	6.8	---	---	---	---	---	---
3	7.0	6.9	7.0	6.7	6.4	6.6	6.9	6.7	6.8	6.9	6.8	6.9
4	7.1	7.0	7.0	6.5	6.4	6.4	6.9	6.8	6.8	6.9	6.7	6.8
5	7.1	7.0	7.0	6.6	6.4	6.5	6.9	6.7	6.8	6.9	6.8	6.8
6	7.1	6.9	7.0	6.7	6.4	6.6	6.8	6.7	6.8	6.9	6.8	6.8
7	6.9	6.9	6.9	7.0	6.6	6.8	6.8	6.7	6.8	6.9	6.7	6.8
8	6.9	6.9	6.9	7.0	6.6	6.8	6.9	6.7	6.8	7.0	6.8	6.9
9	6.9	6.8	6.8	7.0	6.8	6.9	7.0	6.7	6.9	7.0	6.8	6.9
10	6.9	6.8	6.8	7.0	6.7	6.8	6.9	6.8	6.8	6.9	6.8	6.8
11	6.9	6.8	6.8	7.0	6.8	6.9	6.9	6.6	6.8	6.9	6.7	6.8
12	6.9	6.8	6.8	7.2	6.9	7.0	6.8	6.7	6.8	6.9	6.7	6.8
13	6.9	6.8	6.8	7.1	7.0	7.0	6.8	6.7	6.8	6.9	6.7	6.8
14	6.9	6.8	6.8	7.1	6.9	7.0	7.0	6.8	6.9	6.9	6.8	6.8
15	7.0	6.7	6.8	7.1	6.9	7.0	7.1	6.8	7.0	7.0	6.8	6.8
16	7.0	6.7	6.8	7.1	7.0	7.0	7.1	6.9	7.0	7.0	6.7	6.8
17	7.0	6.7	6.8	7.3	7.1	7.2	7.1	7.0	7.0	7.0	6.8	6.9
18	6.7	6.7	6.7	7.3	7.0	7.2	7.1	6.9	7.0	7.1	6.8	6.9
19	6.8	6.7	6.8	7.3	7.0	7.2	7.0	6.9	6.9	6.9	6.8	6.8
20	6.8	6.7	6.8	7.1	7.0	7.0	7.0	6.8	6.9	6.9	6.6	6.7
21	6.5	6.2	6.4	7.0	6.8	6.9	7.0	6.9	6.9	6.9	6.7	6.8
22	6.5	6.4	6.4	7.0	6.7	6.9	6.9	6.8	6.9	6.9	6.4	6.7
23	6.6	6.4	6.5	7.0	6.9	6.9	6.9	6.8	6.8	6.8	6.5	6.6
24	6.5	6.4	6.4	7.0	6.8	6.9	6.8	6.8	6.8	6.7	6.6	6.7
25	---	---	---	6.9	6.7	6.8	6.8	6.8	6.8	6.6	6.3	6.5
26	---	---	---	7.0	6.7	6.8	7.1	6.8	6.9	6.8	6.3	6.5
27	---	---	---	7.0	6.8	6.9	7.1	6.9	7.0	6.5	6.3	6.4
28	---	---	---	6.9	6.8	6.9	7.2	6.9	7.1	6.5	6.2	6.4
29	6.7	6.7	6.7	6.9	6.8	6.8	7.3	7.1	7.2	6.5	6.3	6.4
30	6.8	6.7	6.8	6.9	6.8	6.9	7.2	6.9	7.0	6.6	6.3	6.5
31	---	---	---	---	---	---	7.0	6.9	7.0	---	---	---
MONTH	7.1	6.2	6.8	7.3	6.4	6.9	7.3	6.6	6.9	7.1	6.2	6.7
YEAR	9.4	6.1	6.8									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	15.5	16.0	8.0	7.0	7.5	4.5	3.5	4.0	0.5	0.5	0.5
2	15.5	15.5	15.5	7.0	6.5	7.0	4.0	3.5	4.0	1.0	0.0	0.5
3	16.0	15.0	15.5	6.5	6.0	6.5	4.0	2.5	3.0	1.0	0.0	0.5
4	17.0	15.0	16.0	7.5	7.0	7.5	2.5	2.0	2.0	1.0	0.0	0.5
5	16.5	15.0	15.5	8.0	7.5	7.5	2.5	1.5	2.0	1.0	0.0	0.5
6	15.5	15.5	15.5	8.0	7.5	8.0	2.5	2.0	2.0	0.5	0.0	0.5
7	17.5	15.5	16.5	7.5	7.5	7.5	3.0	2.0	2.5	0.5	0.0	0.0
8	17.0	16.5	16.5	7.5	6.5	7.0	3.0	1.5	2.0	0.5	0.0	0.5
9	16.5	16.0	16.5	6.5	6.0	6.5	1.5	1.0	1.5	0.5	0.0	0.5
10	16.0	14.5	15.0	5.5	5.0	5.5	2.0	1.0	1.5	0.5	0.0	0.0
11	14.5	13.5	14.0	5.5	4.5	5.0	2.5	1.5	2.0	0.0	0.0	0.0
12	13.5	12.5	13.0	5.0	4.0	4.5	2.5	2.0	2.0	0.5	0.0	0.0
13	13.5	12.5	13.0	4.5	3.5	4.0	2.0	1.5	2.0	0.5	0.0	0.0
14	13.0	12.0	12.5	4.5	4.0	4.0	1.5	1.0	1.5	0.5	0.0	0.5
15	12.5	11.5	12.0	5.0	4.0	4.5	2.0	1.0	1.5	0.5	0.0	0.5
16	12.5	11.5	12.0	5.5	4.5	5.0	2.5	1.0	2.0	0.5	0.0	0.5
17	12.0	11.5	11.5	5.5	4.5	5.0	2.5	1.0	2.0	0.5	0.0	0.5
18	11.5	10.5	11.0	6.0	5.0	5.0	2.0	1.0	1.5	0.5	0.0	0.0
19	10.5	10.0	10.0	6.0	5.5	6.0	1.5	1.0	1.0	0.5	0.0	0.0
20	9.5	9.5	9.5	6.5	5.5	6.0	2.0	1.0	1.5	0.5	0.0	0.5
21	10.0	7.5	9.5	5.5	4.5	5.0	2.0	0.5	1.5	0.5	0.0	0.5
22	10.0	5.5	7.5	5.0	4.0	4.5	1.0	1.0	1.0	0.5	0.0	0.5
23	9.5	3.5	6.5	5.0	4.5	4.5	1.5	0.5	1.0	1.0	0.0	0.5
24	---	---	---	5.0	4.5	4.5	1.5	0.5	1.0	1.0	0.0	0.5
25	---	---	---	4.5	4.0	4.0	1.5	1.0	1.0	0.5	0.0	0.5
26	---	---	---	4.5	4.0	4.0	1.0	1.0	1.0	0.5	0.0	0.5
27	---	---	---	5.5	4.5	5.0	1.0	0.5	1.0	1.0	0.0	0.5
28	7.5	6.5	7.0	6.0	5.5	6.0	1.0	0.5	0.5	0.5	0.0	0.5
29	8.0	6.5	7.0	6.5	6.0	6.0	1.0	0.5	0.5	0.5	0.0	0.5
30	8.0	7.0	7.5	6.0	4.5	5.0	1.0	0.5	0.5	0.5	0.0	0.0
31	8.0	7.5	8.0	---	---	---	1.0	0.5	0.5	0.5	0.0	0.5
MONTH	17.5	3.5	12.0	8.0	3.5	5.5	4.5	0.5	1.5	1.0	0.0	0.5

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	---	---	---	5.0	5.0	5.0	---	---	---
2	0.5	0.0	0.5	---	---	---	5.0	5.0	5.0	---	---	---
3	0.5	0.0	0.5	---	---	---	5.5	5.0	5.0	---	---	---
4	0.5	0.0	0.5	---	---	---	5.5	5.5	5.5	---	---	---
5	0.5	0.0	0.5	---	---	---	5.5	5.5	5.5	---	---	---
6	0.5	0.0	0.5	---	---	---	5.5	5.5	5.5	---	---	---
7	0.5	0.0	0.5	---	---	---	6.0	5.5	6.0	---	---	---
8	0.5	0.0	0.5	---	---	---	6.0	6.0	6.0	---	---	---
9	---	---	---	---	---	---	6.0	6.0	6.0	---	---	---
10	---	---	---	---	---	---	6.5	6.0	6.0	---	---	---
11	---	---	---	---	---	---	6.5	6.5	6.5	---	---	---
12	---	---	---	---	---	---	7.0	6.5	6.5	---	---	---
13	---	---	---	---	---	---	7.5	7.0	7.0	---	---	---
14	---	---	---	---	---	---	8.0	7.0	7.5	---	---	---
15	---	---	---	---	---	---	7.5	6.5	7.0	---	---	---
16	---	---	---	---	---	---	8.0	6.5	7.5	---	---	---
17	---	---	---	2.5	2.0	2.0	9.0	7.5	8.0	---	---	---
18	---	---	---	2.5	2.0	2.5	9.0	8.0	8.5	13.5	11.5	12.5
19	---	---	---	2.5	2.5	2.5	9.5	8.5	9.0	13.0	12.5	13.0
20	---	---	---	3.0	2.5	2.5	9.5	8.5	9.0	15.5	12.5	14.0
21	---	---	---	3.0	3.0	3.0	10.0	8.5	9.5	16.5	14.0	15.0
22	---	---	---	3.0	3.0	3.0	12.0	9.5	11.0	18.0	14.0	16.5
23	---	---	---	3.0	3.0	3.0	11.0	10.5	11.0	17.5	14.0	16.5
24	---	---	---	3.5	3.0	3.5	10.5	8.5	10.0	18.0	15.5	17.0
25	---	---	---	3.5	3.5	3.5	9.0	7.5	8.0	19.5	16.5	18.0
26	---	---	---	4.0	3.5	3.5	8.0	7.5	7.5	20.0	18.0	19.0
27	---	---	---	4.0	4.0	4.0	8.5	7.5	8.0	20.0	18.0	18.5
28	---	---	---	4.0	4.0	4.0	8.5	7.5	8.0	19.0	17.0	18.0
29	---	---	---	4.5	4.5	4.5	8.5	7.5	8.0	18.0	16.0	17.0
30	---	---	---	4.5	4.5	4.5	---	---	---	19.0	16.0	17.5
31	---	---	---	4.5	4.5	4.5	---	---	---	18.5	16.0	17.0
MONTH	0.5	0.0	0.5	4.5	2.0	3.5	12.0	5.0	7.5	20.0	11.5	16.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	16.0	17.0	23.0	21.0	22.0	---	---	---	---	---	---
2	18.0	16.0	17.0	23.5	21.5	22.5	---	---	---	---	---	---
3	17.0	16.0	16.5	23.5	21.5	22.5	25.5	23.5	24.5	25.0	24.0	24.5
4	16.5	16.0	16.0	23.0	22.0	22.5	26.0	24.0	25.0	25.0	23.5	24.0
5	---	---	---	23.5	21.5	22.5	26.0	24.5	25.5	23.5	22.5	23.0
6	---	---	---	24.0	22.0	23.0	25.5	24.5	25.5	23.5	22.5	23.0
7	---	---	---	23.5	22.0	23.0	25.5	24.5	25.0	23.5	22.0	22.5
8	---	---	---	23.5	21.5	22.5	26.5	24.5	25.5	23.0	21.5	22.0
9	---	---	---	23.0	21.5	22.0	26.5	25.0	25.5	22.5	21.0	21.5
10	---	---	---	24.0	21.5	23.0	25.5	24.5	25.0	21.5	21.0	21.0
11	---	---	---	24.0	22.0	23.0	25.0	24.0	24.5	21.5	20.0	20.5
12	---	---	---	23.0	22.5	23.0	24.0	23.5	23.5	20.5	19.0	20.0
13	---	---	---	23.0	22.5	23.0	24.0	23.0	23.5	20.0	19.0	19.5
14	18.5	17.0	18.0	24.5	22.5	23.5	24.0	23.0	23.5	20.0	19.0	19.5
15	19.5	19.0	18.0	25.0	23.0	24.0	24.0	22.5	23.5	19.5	18.0	18.5
16	19.0	17.0	18.0	26.0	24.0	25.0	23.5	22.5	23.0	18.5	17.5	18.0
17	18.5	17.0	18.0	26.0	24.5	25.0	23.5	22.5	23.0	18.0	18.0	18.0
18	18.5	17.0	18.0	27.0	25.0	26.0	23.5	22.5	23.0	19.0	17.5	18.0
19	19.0	17.0	18.0	---	---	---	23.5	22.0	22.5	19.5	18.0	18.5
20	18.5	18.5	18.5	28.5	26.5	27.5	23.0	22.0	22.5	19.0	17.5	18.0
21	20.0	18.0	19.0	29.0	27.5	28.5	23.0	21.0	22.0	17.0	16.0	16.5
22	19.5	18.0	19.0	28.5	27.0	27.5	21.5	21.0	21.0	16.5	15.0	15.5
23	20.5	18.0	19.0	27.0	25.5	26.0	21.5	20.5	21.0	17.0	15.0	16.0
24	20.5	19.0	20.0	26.5	25.0	25.5	21.5	20.5	21.0	16.5	16.0	16.0
25	---	---	---	26.0	25.0	25.0	21.5	20.5	21.0	16.0	15.0	15.5
26	---	---	---	24.5	23.5	24.0	21.5	19.5	20.5	15.5	15.0	15.0
27	---	---	---	24.5	22.5	23.5	22.0	20.0	21.0	16.0	15.0	15.5
28	---	---	---	24.0	22.5	23.0	23.0	21.0	22.0	16.5	15.0	15.5
29	21.5	21.0	21.0	24.0	22.5	23.0	24.5	22.5	23.5	16.5	15.5	16.0
30	22.5	21.0	22.0	23.5	22.5	23.0	25.0	23.5	24.0	16.5	15.5	16.0
31	---	---	---	---	---	---	24.0	23.0	23.5	---	---	---
MONTH	22.5	16.0	18.5	29.0	21.0	24.0	26.5	19.5	23.5	25.0	15.0	19.0
PERIOD	29.0	0.0	11.5									

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	9.1	9.2	10.6	10.3	10.5	11.1	10.8	11.0	11.3	11.1	11.2
2	9.3	9.0	9.2	10.7	10.5	10.6	11.1	10.7	11.0	11.4	11.1	11.3
3	9.1	8.9	9.0	10.8	10.6	10.7	11.2	10.7	11.0	11.4	11.3	11.4
4	9.0	8.5	8.8	10.7	10.3	10.5	11.6	11.2	11.4	11.3	11.1	11.2
5	9.1	8.7	8.9	10.6	10.4	10.6	11.6	11.4	11.5	11.3	11.1	11.3
6	9.2	8.8	9.0	10.6	10.4	10.5	11.6	11.5	11.5	11.6	10.9	11.6
7	9.2	8.7	8.8	10.6	10.5	10.6	11.5	10.9	11.2	11.5	11.3	11.3
8	8.8	8.7	8.7	10.7	10.4	10.5	11.6	11.3	11.5	11.4	11.3	11.3
9	8.7	8.4	8.6	10.8	10.5	10.7	11.7	11.6	11.7	11.6	11.3	11.5
10	9.0	8.4	8.8	10.9	10.8	10.9	11.8	11.5	11.7	11.6	10.9	11.4
11	9.3	9.1	9.2	11.1	11.0	11.0	11.5	11.4	11.4	11.4	10.6	11.2
12	9.6	9.3	9.4	11.3	11.2	11.3	11.4	11.1	11.3	11.4	11.2	11.2
13	9.3	9.1	9.2	11.4	11.3	11.4	11.5	11.1	11.2	11.4	11.2	11.3
14	9.4	9.1	9.2	11.4	11.2	11.3	11.6	11.4	11.5	11.4	11.0	11.2
15	9.5	9.2	9.4	11.4	11.2	11.3	11.8	11.3	11.5	11.1	11.0	11.1
16	9.3	9.2	9.3	11.3	11.2	11.2	11.8	11.5	11.7	11.0	10.8	10.9
17	9.5	9.3	9.4	11.3	11.1	11.2	11.6	11.2	11.5	10.9	10.7	10.8
18	9.6	9.3	9.5	11.1	10.7	11.0	11.7	11.3	11.6	10.8	10.5	10.7
19	10.0	9.7	9.9	11.0	10.6	10.9	11.8	11.5	11.7	10.8	10.5	10.7
20	9.9	9.6	9.8	10.8	10.6	10.7	11.7	11.2	11.5	10.7	10.5	10.6
21	10.2	8.6	9.3	10.9	10.8	10.8	11.4	11.1	11.3	10.8	10.5	10.7
22	8.5	8.2	8.3	11.0	10.9	10.9	11.6	11.3	11.5	10.8	10.5	10.7
23	8.2	7.9	8.1	11.0	10.8	10.9	11.8	11.5	11.7	10.8	10.7	10.8
24	---	---	---	11.1	10.9	11.0	11.7	11.5	11.5	10.8	10.7	10.7
25	---	---	---	11.2	11.1	11.1	11.7	11.5	11.7	10.8	10.4	10.6
26	---	---	---	11.1	11.0	11.1	11.6	11.3	11.5	10.7	10.2	10.5
27	---	---	---	11.0	10.7	10.9	11.4	11.1	11.3	10.7	10.4	10.5
28	11.2	11.0	11.1	10.8	10.5	10.7	11.5	11.3	11.4	10.7	10.2	10.5
29	11.1	10.7	10.9	10.6	10.1	10.3	11.5	11.1	11.3	10.4	10.2	10.4
30	10.7	10.3	10.6	10.7	10.3	10.5	11.4	11.1	11.3	10.6	10.4	10.6
31	10.9	10.3	10.4	---	---	---	11.4	11.1	11.3	10.6	10.4	10.5
MONTH	11.2	7.9	9.3	11.4	10.1	10.9	11.8	10.7	11.4	11.6	10.2	11.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.7	10.3	10.5	9.6	9.4	9.5	12.0	11.6	11.8	---	---	---
2	10.7	10.5	10.6	9.6	9.3	9.5	11.8	11.6	11.7	---	---	---
3	10.7	10.3	10.5	9.6	9.3	9.5	11.7	11.4	11.5	---	---	---
4	10.4	10.4	10.4	9.6	9.1	9.4	11.7	11.4	11.6	---	---	---
5	10.4	10.1	10.3	9.4	9.1	9.3	11.7	11.4	11.5	---	---	---
6	10.4	10.3	10.4	9.4	9.3	9.4	11.8	11.4	11.7	---	---	---
7	10.5	10.3	10.4	9.3	9.1	9.2	11.7	10.6	11.3	---	---	---
8	10.5	10.2	10.4	9.2	8.9	9.1	12.0	11.6	11.7	---	---	---
9	10.5	10.2	10.4	9.1	8.9	9.0	12.1	12.0	12.1	---	---	---
10	10.5	10.2	10.3	9.2	8.7	8.9	12.0	11.6	11.9	---	---	---
11	10.4	10.2	10.3	9.4	9.0	9.2	11.9	11.7	11.9	---	---	---
12	10.3	10.0	10.2	9.3	8.8	9.1	11.7	11.4	11.5	---	---	---
13	10.2	9.8	10.0	9.1	8.6	8.9	11.3	10.8	11.1	---	---	---
14	10.1	10.0	10.0	---	---	---	10.9	10.6	10.7	---	---	---
15	10.1	9.8	10.0	---	---	---	11.0	10.6	10.9	---	---	---
16	10.1	10.0	10.0	---	---	---	10.9	10.6	10.8	---	---	---
17	10.1	9.9	10.0	12.2	11.8	12.0	10.7	10.4	10.6	---	---	---
18	10.1	9.7	9.9	12.1	11.8	12.0	10.6	10.4	10.5	10.4	10.1	10.3
19	10.0	9.7	9.9	11.9	11.4	11.7	10.5	10.2	10.4	10.3	10.2	10.2
20	9.9	9.5	9.7	11.8	11.4	11.6	10.5	10.2	10.3	10.1	9.4	9.7
21	9.7	9.3	9.5	11.5	11.0	11.3	10.2	9.5	10.1	9.6	9.0	9.4
22	9.8	9.5	9.6	12.7	11.2	12.1	9.6	8.8	9.0	9.4	8.9	9.1
23	9.5	9.2	9.3	12.3	12.0	12.2	9.7	8.6	9.2	10.0	8.7	9.4
24	9.5	9.0	9.3	12.4	11.8	12.0	9.9	9.3	9.7	9.7	9.1	9.4
25	9.8	8.8	9.3	12.0	11.8	11.9	10.8	9.8	10.5	9.4	8.7	9.0
26	9.9	9.6	9.7	11.9	11.6	11.8	10.8	9.9	10.5	8.9	8.6	8.8
27	9.7	9.4	9.6	11.9	11.6	11.7	10.5	9.8	10.1	8.9	8.8	8.8
28	9.5	9.4	9.5	12.2	11.8	12.0	10.6	9.8	10.1	9.1	8.8	8.9
29	---	---	---	12.2	12.0	12.1	10.5	9.6	10.0	9.5	9.0	9.1
30	---	---	---	12.3	11.8	12.1	---	---	---	9.4	9.2	9.3
31	---	---	---	11.9	11.6	11.7	---	---	---	9.5	9.2	9.3
MONTH	10.7	8.8	10.0	12.7	8.6	10.7	12.1	8.6	10.9	10.4	8.6	9.3

01064140 PRESUMPSCOT RIVER NEAR WEST FALMOUTH, ME--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	9.0	9.2	8.4	8.4	8.4	---	---	---	---	---	---
2	9.3	9.0	9.2	8.1	7.8	8.2	---	---	---	---	---	---
3	9.4	9.2	9.3	8.2	6.7	7.4	8.0	7.7	7.8	7.8	7.3	7.6
4	9.5	9.4	9.4	6.5	6.4	6.4	7.8	7.6	7.7	8.0	7.5	7.7
5	---	---	---	6.4	6.1	6.2	7.7	7.3	7.5	8.2	7.8	8.0
6	---	---	---	6.4	5.9	6.2	7.4	7.2	7.3	8.4	7.7	8.0
7	---	---	---	6.7	5.7	6.2	7.5	7.2	7.3	8.2	7.5	7.8
8	---	---	---	7.8	6.1	7.0	7.2	7.0	7.2	8.0	7.6	7.8
9	---	---	---	8.2	7.6	7.9	7.2	7.0	7.1	8.2	7.7	7.9
10	---	---	---	8.2	7.8	8.0	7.3	7.0	7.1	8.0	7.7	7.8
11	---	---	---	8.2	7.7	8.0	7.9	7.0	7.4	8.2	7.7	8.0
12	---	---	---	8.8	7.9	8.4	7.9	7.8	7.8	8.4	8.0	8.2
13	---	---	---	8.0	7.8	7.9	8.0	7.8	7.9	8.4	8.2	8.3
14	8.7	8.4	8.6	8.1	7.9	8.0	7.9	7.8	7.8	8.2	7.9	8.1
15	8.7	8.4	8.6	8.0	7.6	7.8	8.1	7.8	8.0	8.6	8.2	8.5
16	8.5	8.2	8.4	7.6	7.4	7.5	8.1	7.8	8.0	8.7	8.4	8.6
17	8.5	8.2	8.4	7.5	7.1	7.3	7.9	7.6	7.8	8.6	8.5	8.6
18	8.5	8.0	8.2	7.2	6.8	7.0	7.9	7.6	7.8	8.6	8.4	8.5
19	8.3	8.2	8.2	---	---	---	8.2	7.9	8.1	8.6	8.2	8.4
20	8.1	8.0	8.1	6.8	6.7	6.8	8.2	8.0	8.1	8.8	8.3	8.6
21	8.7	8.4	8.6	6.7	6.5	6.6	8.3	8.0	8.1	9.1	8.8	8.9
22	8.9	8.6	8.8	7.0	6.5	6.9	8.3	8.1	8.2	9.3	8.9	9.1
23	8.8	8.4	8.6	7.2	6.8	7.1	8.5	8.2	8.4	9.2	8.6	8.9
24	8.5	8.2	8.4	7.3	7.1	7.2	8.3	8.1	8.2	9.0	8.7	8.8
25	---	---	---	7.2	7.1	7.1	8.3	8.1	8.2	9.2	9.0	9.1
26	---	---	---	7.5	7.1	7.4	8.4	8.2	8.4	9.2	8.8	9.1
27	---	---	---	7.5	7.2	7.3	8.5	8.2	8.4	9.1	8.8	8.9
28	---	---	---	7.6	7.3	7.5	8.3	8.2	8.3	9.1	8.6	8.9
29	8.6	8.5	8.6	7.5	6.9	7.2	8.3	7.8	8.1	8.8	8.6	8.7
30	8.6	8.5	8.6	7.1	6.9	7.0	7.8	7.4	7.7	9.0	8.6	8.8
31	---	---	---	---	---	---	7.9	7.6	7.8	---	---	---
MONTH	9.5	8.0	8.7	8.8	5.7	7.3	8.5	7.0	7.8	9.3	7.3	8.4
YEAR	12.7	5.7	9.7									

01064158 STROUDWATER RIVER AT PORTLAND, ME

LOCATION (REVISED).--Lat 43°39'23", long 70°18'40", Cumberland County, Hydrologic Unit 01060001, on left bank at Portland 100 ft (30 m) upstream from bridge on Westbrook Street, and 15 ft (4.6 m) upstream from dam.

DRAINAGE AREA.--27.6 mi^2 (71.5 km^2).

PERIOD OF RECORD.--May 1975 to July 1977, seasonal records only (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6 m), from topographic map.

REMARKS.--Records poor. Several observations of water temperature and specific conductance were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed discharge, 1,160 ft^3/s (32.9 m^3/s) Mar. 15, 1977, gage height, 3.85 ft (1.173 m), on falling stage of peak that occurred about Mar. 13; minimum, 0.90 ft^3/s (0.025 m^3/s) Aug. 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge for period October 1976 to July 1977, 1,160 ft^3/s (32.9 m^3/s) Mar. 15, gage height, 3.85 ft (1.173 m), on falling stage of peak that occurred about Mar. 13; minimum, 2.5 ft^3/s (0.071 m^3/s) July 25.

REVISIONS.--The maximum discharges for the period May to September 1975 and water year 1976 have been revised to 433 ft^3/s (12.3 m^3/s) June 13, 1975, gage height, 2.87 ft (0.875 m) and 999 ft^3/s (28.3 m^3/s) Apr. 2, 1976, gage height, 3.64 ft (1.109 m); revised daily discharges, in cubic feet per second, for high-water periods in April and August 1976 are given below. These figures supersede those published in the reports for 1975-76.

Apr. 2, 1976 725
Aug. 10, 1976 574

Month	Total	Mean	Max	Min	Cfsm	In.
April 1976	2230	74.3	725	22	2.69	3.01
August 1976	1295.1	41.8	574	4.1	1.51	1.75

The accuracy rating of records published for water years 1975-76 has been changed to "poor."

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	72	28				278	44	18	17		
2	11	43	27				166	41	20	15		
3	8.8	35	25				284	39	21	14		
4	7.6	134	19				251	36	21	13		
5	7.3	55	15				220	31	21	12		
6	13	45					266	31	21	12		
7	29	40					134	29	18	11		
8	22	36					117	24	21	11		
9	31	33					117	23	22	12		
10	83	32					87	186	17	15		
11	37	31					74	160	17	15		
12	29	28					72	78	21	12		
13	27	28					87	53	21	19		
14	27	27					89	39	19	60		
15	25	27					74	41	16	17		
16	13	27				600	53	38	14	9.3		
17	9.6	26				409	54	30	14	6.9		
18	8.0	27				310	53	28	14	6.0		
19	7.2	27				223	47	26	15	5.6		
20	12	27				190	42	26	17	5.3		
21	290	25				169	42	24	17	5.3		
22	57	24				169	42	22	23	4.9		
23	15	24				172	72	19	20	4.0		
24	46	23				163	160	17	17	2.9		
25	111	23				144	187	17	15	3.7		
26	73	22				134	131	17	26			
27	45	23				200	93	17	26			
28	35	26				251	78	17	19			
29	33	30			------	344	65	18	17			
30	33	37			------	390	53	19	17			
31	148	------			------	371	------	18	------			
TOTAL	1306.5	1057					3488	1208	565			
MEAN	42.1	35.2					116	39.0	18.8			
MAX	290	134					284	186	26			
MIN	7.2	22					42	17	14			
CFSM	1.52	1.28					4.20	1.41	.68			
IN.	1.76	1.42					4.70	1.63	.76			

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi^2 (1,000 km^2).

PERIOD OF RECORD.--Discharge: August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1908-9.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--54 years (water years 1904-9, 1930-77), 927 ft^3/s (26.25 m^3/s), 32.61 in/yr (828 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft^3/s (1,240 m^3/s) Mar. 27, 1953, gage height, 17.20 ft (5.243 m), from rating curve extended above 23,000 ft^3/s (651 m^3/s) on basis of slope-area measurement of peak flow; minimum, 40 ft^3/s (1.13 m^3/s) Mar. 16, 1932, gage height, 1.61 ft (0.491 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft^3/s (246 m^3/s) and maximums (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 10	0200	10200	289	8.48	2.585	Mar. 14	0900	*37200	1054	*15.61	4.758
Oct. 21	1400	19300	547	11.12	3.389						

Minimum discharge, 119 ft^3/s (3.37 m^3/s) Sept. 12, gage height, 2.01 ft (0.057 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	2070	437	320	275	390	5880	1660	423	494	163	161
2	388	1400	400	315	275	360	3360	1770	577	414	179	157
3	364	1190	360	315	275	340	4040	1980	949	364	178	149
4	345	1210	330	310	275	320	4190	1550	678	332	161	142
5	329	1340	370	310	270	340	3020	1410	533	318	151	140
6	327	1810	450	305	270	370	2680	1630	515	296	151	140
7	328	1520	981	305	270	350	2190	1820	732	274	162	139
8	324	1260	2330	305	270	315	1870	1380	1110	265	162	130
9	2360	1100	1090	300	270	300	1590	1140	838	313	155	125
10	5630	1010	865	300	270	400	1450	1130	711	297	149	130
11	1890	954	740	300	275	580	1350	1100	733	260	181	133
12	1250	891	700	300	280	780	1490	984	1060	249	189	129
13	1020	858	650	295	290	1110	2810	1140	782	308	176	136
14	962	791	610	295	300	13200	5190	1100	624	357	183	990
15	941	760	580	295	290	7320	3470	901	637	281	236	905
16	1110	729	540	295	285	4480	2650	865	537	246	219	470
17	971	695	510	290	280	3460	2670	943	466	228	713	346
18	869	677	490	290	275	2460	3000	1250	477	229	606	321
19	886	652	460	290	270	1990	3210	1070	559	219	339	299
20	923	634	435	290	265	1620	3270	900	528	203	261	276
21	11700	576	415	290	260	1460	3650	827	467	198	224	599
22	5340	558	400	285	255	1300	4530	767	470	247	229	783
23	2850	551	385	285	250	1260	5260	749	461	230	321	523
24	2060	529	370	285	245	1130	5140	669	389	198	269	417
25	1830	517	365	285	270	1030	4120	608	367	191	237	376
26	2030	501	355	280	295	958	3030	555	477	202	217	548
27	1700	503	345	280	325	974	2590	497	1110	191	196	3730
28	1400	586	340	280	355.	1160	2380	464	639	176	187	1380
29	1290	639	335	280	---	1800	2100	619	493	168	178	1030
30	1170	574	325	280	---	4190	1790	535	617	163	171	933
31	1300	---	320	275	---	7330	---	460	---	162	162	---
TOTAL	54306	27085	17283	9130	7785	63077	93970	32473	18959	8073	7105	15737
MEAN	1752	903	558	295	278	2035	3132	1048	632	260	229	525
MAX	11700	2070	2330	320	355	13200	5880	1980	1110	494	713	3730
MIN	324	501	320	275	245	300	1350	460	367	162	149	125
CFSM	4.54	2.34	1.45	.76	.72	5.27	8.11	2.72	1.64	.67	.59	1.36
IN.	5.23	2.61	1.67	.88	.75	6.08	9.06	3.13	1.83	.78	.68	1.52

CAL YR 1976 TOTAL 446990 MEAN 1221 MAX 12000 MIN 224 CFSM 3.16 IN 43.08
WTR YR 1977 TOTAL 354983 MEAN 973 MAX 13200 MIN 125 CFSM 2.52 IN 34.21

01065000 OSSIPEE RIVER AT EFFINGHAM FALLS, NH

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, Hydrologic Unit 01060002, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--Discharge: September 1942 to current year.
Water-quality records: Water year 1955.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Ossipee and Silver Lakes and Pine River Pond, combined capacity, 1,430,000,000 ft³ (40,500,000 m³). Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--35 years, 689 ft³/s (19.51 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953, gage height, 11.64 ft (3.548 m); minimum, about 5 ft³/s (0.14 m³/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,040 ft³/s (114 m³/s) Mar. 16, gage height, 8.21 ft (2.502 m); minimum, 47 ft³/s (1.33 m³/s) July 2, 3; minimum daily, 47 ft³/s (1.33 m³/s) July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	969	320	481	221	346	2880	1460	294	607	180	173
2	264	804	340	475	221	340	3060	1350	300	560	182	173
3	264	821	330	471	221	334	3130	1260	317	47	190	174
4	261	833	680	468	221	328	3260	1170	328	130	231	174
5	261	842	640	465	221	340	3260	1080	328	204	280	174
6	261	880	640	462	221	343	3090	578	323	204	178	174
7	261	902	740	458	221	349	2840	289	328	202	178	174
8	349	915	800	455	221	355	2610	289	346	204	178	174
9	406	911	750	452	221	359	2370	238	359	252	176	174
10	546	889	730	449	221	365	2090	266	452	259	176	174
11	791	872	710	449	221	374	1860	505	498	259	176	174
12	796	800	690	446	221	390	1720	641	498	254	176	174
13	779	780	670	443	223	413	1660	791	564	271	176	174
14	766	730	660	439	334	1000	1720	859	585	289	177	177
15	758	700	700	436	427	2990	1510	833	501	312	177	179
16	749	500	600	433	420	3920	1390	808	452	261	176	336
17	741	500	622	427	413	3960	1400	787	446	269	177	443
18	462	500	657	423	410	3640	1390	770	439	267	177	442
19	261	490	649	420	403	3250	1360	758	439	266	176	440
20	264	490	645	416	397	2860	1310	491	436	266	186	502
21	885	480	645	311	393	2550	1250	289	436	264	176	650
22	1840	470	638	216	390	2250	1060	294	436	246	176	658
23	2380	410	630	216	380	2010	915	300	433	236	176	656
24	2330	400	622	216	371	1810	1430	303	433	235	176	648
25	2030	390	619	218	371	1630	1860	308	430	233	176	642
26	1840	380	611	218	365	1480	1980	305	430	233	176	641
27	1720	270	607	218	355	1360	1940	300	346	231	175	913
28	1600	290	596	218	355	1290	1850	297	297	231	176	1210
29	1420	310	593	221	---	1320	1730	297	297	200	176	1220
30	1260	340	585	218	---	1600	1590	300	305	183	174	1080
31	1210	---	528	221	---	2230	---	297	---	184	174	---
TOTAL	28019	18868	19247	11459	8659	45786	59515	18513	12076	7859	5654	13097
MEAN	904	629	621	370	309	1477	1984	597	403	254	182	437
MAX	2380	969	800	481	427	3960	3260	1460	585	607	280	1220
MIN	261	270	320	216	221	328	915	238	294	47	174	173

CAL YR 1976 TOTAL 279206 MEAN 763 MAX 4470 MIN 154
WTR YR 1977 TOTAL 248752 MEAN 682 MAX 3960 MIN 47

NOTE.--No gage-height record Nov. 12 to Dec. 16.

01065500 OSSIPEE RIVER AT CORNISH, ME

LOCATION.--Lat 43°48'26", long 70"47'55", Oxford County, Hydrologic Unit 01060002, on left bank 100 ft (30 m) downstream from highway bridge in Cornish and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--453 mi^2 (1,173 km^2).

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1301: 1927-29(M).

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) above mean sea level. Prior to Aug. 21, 1929, nonrecording gage, and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft (0.3 m) higher.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds, combined capacity, 1,600,000,000 ft^3 (45,300,000 m^3). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--61 years, 873 ft^3/s (24.72 m^3/s).

EXTREMES FOR PERIOD OF RECORD..--Maximum discharge, 17,200 ft^3/s (487 m^3/s) Mar. 21, 1936, gage height, 16.32 ft (4.974 m, present datum), from rating curve extended above 7,500 ft^3/s (212 m^3/s); minimum daily, 65 ft^3/s (1.84 m^3/s) Sept. 8, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,790 ft^3/s (164 m^3/s) Mar. 16, gage height, 8.21 ft (2.502 m); maximum gage height, 9.52 ft (2.902 m) Mar. 14 (backwater from ice); minimum daily discharge, 106 ft^3/s (3.00 m^3/s) July 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	1370	382	710	325	560	3860	1870	393	397	233	200
2	292	965	419	680	325	540	3850	1730	420	943	224	195
3	271	947	406	670	325	530	4350	1620	444	245	227	195
4	289	978	863	665	325	520	4400	1500	436	106	210	200
5	274	984	790	660	325	620	4180	1400	424	218	199	215
6	278	1160	779	660	325	610	4130	1180	412	258	196	210
7	289	1160	941	655	330	600	3760	566	432	245	199	205
8	278	1130	1220	650	330	595	3380	521	480	248	210	200
9	494	1090	1020	650	330	590	3060	499	600	258	205	191
10	620	1050	1000	645	330	620	2740	733	680	320	200	191
11	857	1020	978	640	330	770	2480	930	710	300	215	191
12	863	984	941	640	330	1150	2310	988	740	327	240	185
13	840	947	923	640	450	1800	2240	994	800	416	235	193
14	828	917	917	640	560	3000	2270	1130	830	408	225	264
15	812	851	978	635	620	5300	2170	1070	850	381	220	254
16	801	625	875	635	610	5440	1840	1030	750	324	215	242
17	784	610	893	630	600	5260	1820	994	650	317	210	457
18	691	610	1000	630	590	4700	1790	956	640	307	270	469
19	318	605	984	625	580	4070	1740	937	630	307	370	469
20	315	605	978	620	575	3570	1680	833	610	303	300	478
21	1210	590	998	520	570	3170	1610	465	580	297	255	777
22	2080	580	847	430	565	2820	1520	440	560	251	230	771
23	2340	508	920	330	560	2630	1310	432	534	233	240	727
24	2520	494	910	325	550	2440	1790	436	512	221	250	696
25	2320	490	900	325	580	2190	2700	408	508	218	240	680
26	2100	482	880	325	600	1990	2620	408	521	218	230	749
27	1920	369	870	320	580	1890	2500	400	552	230	225	1150
28	1770	361	860	320	570	1870	2370	389	397	218	220	1400
29	1630	394	850	320	---	2120	2200	408	393	221	215	1420
30	1430	415	830	320	---	2600	2020	404	393	218	210	1320
31	1390	---	800	320	---	3410	---	397	---	227	205	---
TOTAL	31189	23291	26952	16835	13090	67975	78690	26068	16881	9180	7123	14894
MEAN	1006	776	869	543	468	2193	2623	841	563	296	230	496
MAX	2520	1370	1220	710	620	5440	4400	1870	850	943	370	1420
MIN	271	361	382	320	325	520	1310	389	393	106	196	185

CAL YR 1976 TOTAL 370695 MEAN 1013 MAX 6070 MIN 187
WTR YR 1977 TOTAL 332168 MEAN 910 MAX 5440 MIN 106

NOTE.--No gage-height record Aug. 8 to Sept. 8.

01066000 SACO RIVER AT CORNISH, ME
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, Hydrologic Unit 01060002, on left bank 300 ft (90 m) upstream from highway bridge at Cornish and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,298 mi^2 (3,362 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 1301: 1917-18(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) above mean sea level. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds, combined capacity, 3,400,000,000 ft^3 (96,000,000 m^3).

AVERAGE DISCHARGE.--61 years, 2,700 ft^3/s (76.46 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Mar. 21, 22, 1936, gage height, 21.90 ft (6.675 m), from floodmarks; minimum daily, 245 ft^3/s (6.94 m^3/s) Oct. 18, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,900 ft^3/s (365 m^3/s) Mar. 19, gage height, 9.52 ft (2.902 m); maximum gage height, 12.93 ft (3.941 m) Mar. 15 (backwater from ice); minimum daily discharge, 314 ft^3/s (8.89 m^3/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	4760	1700	1600	1060	1320	9120	6690	1330	1770	541	527
2	1150	4190	1590	1580	1050	1310	9960	6050	1350	2100	589	526
3	1080	4150	1270	1560	1050	1310	11800	5610	1390	711	579	522
4	1050	4060	1150	1550	1050	1300	12300	5190	1450	939	552	523
5	988	3910	1100	1510	1050	1300	12200	4890	1480	946	594	519
6	954	4050	1020	1500	1040	1420	12200	4450	1440	939	606	515
7	934	4060	1150	1500	1040	1450	11400	3680	1430	881	565	574
8	887	4020	1800	1480	1030	1440	10600	3480	1490	853	557	340
9	1130	3940	2150	1450	1030	1430	9670	3280	1560	846	552	314
10	1870	3720	2550	1440	1020	1420	8620	3580	1620	904	550	338
11	3100	3610	2500	1410	1020	1450	7640	3610	1790	869	576	401
12	3140	3450	2400	1400	1010	1490	6870	3420	1860	820	554	375
13	3160	3280	2350	1380	1010	1520	6520	3280	1880	863	546	318
14	3120	3130	2300	1360	1050	1590	6390	3250	1920	980	558	360
15	2960	2960	2380	1350	1180	1660	6360	3110	1940	907	557	410
16	2820	2640	2400	1330	1180	5000	6290	2910	1730	876	553	600
17	2700	2450	2350	1320	1170	12000	6560	2760	1600	829	570	940
18	2510	2450	2300	1300	1170	12500	6520	2670	1600	819	649	890
19	2070	2310	2250	1290	1170	12600	6400	2620	1620	761	875	900
20	1950	2270	2210	1280	1180	12000	6230	2540	1590	703	799	940
21	3390	2190	2150	1260	1170	11400	6110	2150	1620	685	766	1050
22	5150	2110	2110	1150	1170	11000	5950	2050	1630	720	679	1500
23	5960	1980	2050	1100	1160	10100	5850	1890	1550	674	679	1450
24	7230	1880	2000	1100	1160	8940	6730	1840	1500	666	672	1600
25	7680	1870	1980	1100	1190	7550	8300	1750	1440	677	667	1500
26	7500	1830	1920	1090	1320	6490	8610	1660	1420	679	639	1600
27	7030	1670	1890	1090	1320	5830	8650	1540	1450	642	592	2300
28	6520	1640	1840	1080	1320	5410	8400	1470	1390	605	584	3000
29	6020	1690	1800	1070	---	5780	7870	1400	1480	593	598	3600
30	5380	1760	1760	1070	---	6610	7270	1360	1380	556	550	3400
31	4930	---	1610	1060	---	8010	---	1370	---	542	527	---
TOTAL	105523	88030	60030	40760	31370	162630	247390	95550	46930	26355	18875	31832
MEAN	3404	2934	1936	1315	1120	5246	8246	3082	1564	850	609	1061
MAX	7680	4760	2550	1600	1320	12600	12300	6690	1940	2100	875	3600
MIN	887	1640	1020	1060	1010	1300	5850	1360	1330	542	527	314

CAL YR 1976 TOTAL 1213223 MEAN 3315 MAX 18900 MIN 765
WTR YR 1977 TOTAL 955275 MEAN 2617 MAX 12600 MIN 314

01066000 SACO RIVER AT CORNISH, ME--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the monitor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 96 micromhos July 3, 1977; minimum, 23 micromhos Oct. 21, 1975.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 96 micromhos July 3; minimum, 30 micromhos Oct. 11, 12, 22, June 30.
WATER TEMPERATURES: Maximum, 28.5°C July 19-22; minimum, 0.0°C on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT												
26...	1130	7290	31	6.3	6.5	--	10.2	82	B9	--	--	--
DEC												
19...	1215	2250	47	6.5	.0	5	14.0	96	7	B4	9	0
JAN												
26...	1430	1330	55	6.3	.0	--	13.0	89	B2	--	--	--
FEB												
16...	1500	1180	55	6.2	.0	5	12.0	82	B6	12	10	0
MAR												
28...	1300	5040	50	6.4	2.5	--	13.0	95	B2	B5	--	--
APR												
25...	1300	8390	34	6.5	7.0	3	11.6	95	30	27	10	5
JUN												
21...	1415	1650	38	6.6	20.5	--	8.6	94	B34	116	--	--
AUG												
01...	1430	539	44	7.0	23.0	--	8.4	97	40	B290	--	--
23...	1400	677	41	6.8	19.5	1	8.1	87	B120	13	10	3
SEP												
19...	1300	1050	36	6.5	17.0	--	8.7	90	22	110	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT												
26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	3.1	.3	2.7	38	.4	.5	12	0	10	6.1	5.2	5.2
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	3.6	.3	3.4	41	.5	.5	15	0	12	15	3.7	4.9
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	2.3	1.0	2.0	29	.3	.5	6	0	5	3.0	3.8	2.3
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
23...	3.0	.5	3.3	40	.5	.8	8	0	7	2.0	3.7	3.7
SEP												
19...	--	--	--	--	--	--	--	--	--	--	--	--

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)
OCT 26...	--	--	--	--	--	.06	.25	.31	1.4	.03	--	--
DEC 19...	.3	7.8	34	31	207	.14	.10	.24	1.1	.02	0	0
JAN 26...	--	--	--	--	--	.22	.67	.89	3.9	.03	--	--
FEB 16...	.3	6.8	32	31	102	.17	.41	.58	2.6	.01	0	0
MAR 28...	--	--	--	--	--	.17	.20	.37	1.6	.04	--	--
APR 25...	.2	4.9	22	20	498	.10	.21	.31	1.4	.01	0	0
JUN 21...	--	--	--	--	--	.11	.15	.26	1.2	.00	--	--
AUG 01...	--	--	--	--	--	.10	.22	.32	1.4	.01	--	--
23...	.3	6.0	33	25	60.3	.11	.21	.32	1.4	.01	0	0
SEP 19...	--	--	--	--	--	.08	.10	.18	.80	.00	--	--

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)
OCT 26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	0	0	0	1	<10	0	<10	0	0	0	0	0
JAN 26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	0	16	16	0	<10	0	<10	1	1	0	0	0
MAR 28...	--	--	--	--	--	--	--	--	--	--	--	--
APR 25...	0	0	0	0	<10	<6	4	0	0	0	25	21
JUN 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	--	--	--
23...	0	0	0	0	20	18	2	0	0	0	4	1
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)
OCT 26...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	0	200	70	8	2	6	20	10	10	2.0	1.5
JAN 26...	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	10	240	90	140	130	8	20	0	20	<.5	.0
MAR 28...	--	--	--	--	--	--	--	--	--	--	--
APR 25...	4	340	140	11	8	3	20	0	20	.0	.0
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	--	--
23...	3	180	80	27	21	6	10	0	10	.0	.0
SEP 19...	--	--	--	--	--	--	--	--	--	--	--

01066000 SACO RIVER AT CORNISH, ME--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT										
26...	--	--	--	--	--	--	--	--	16	315
DEC										
19...	<.5	0	0	0	10	0	10	6.0	110	668
JAN										
26...	--	--	--	--	--	--	--	--	16	57
FEB										
16...	<.5	0	0	0	0	0	0	3.8	1	3.2
MAR										
28...	--	--	--	--	--	--	--	--	1	14
APR										
25...	.0	0	0	0	10	0	10	4.7	4	91
JUN										
21...	--	--	--	--	--	--	--	--	8	36
AUG										
01...	--	--	--	--	--	--	--	--	17	25
23...	.0	0	0	0	20	20	0	7.0	7	13
SEP										
19...	--	--	--	--	--	--	--	--	7	20

QUALITATIVE AND QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS(G/SQ M)		CHLOROPHYLL A (MG/SQ M)	CHLOROPHYLL B (MG/SQ M)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
		DRY WEIGHT	ASH WEIGHT				
AUG 23	27	8900	6690	0.774	0.000	2860	ARTIFICIAL SUBSTRATE
SEP 19	35	157	78.0	0.000	0.000	--	ARTIFICIAL SUBSTRATE

SACO RIVER BASIN

01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1976 TO APRIL 1977

DATE TIME	OCT 26,76 1130		DEC 19,76 1215		JAN 26,77 1430		FEB 16,77 1500		APR 25,77 1300	
TOTAL CELLS/ML	350		700		160		16		3	
DIVERSITY: DIVISION	0.5		0.9		0.0		0.0		0.0	
.CLASS	0.5		0.9		0.0		0.0		0.0	
..ORDER	0.5		1.0		0.0		0.0		0.0	
...FAMILY	0.6		1.1		0.9		0.7		0.0	
....GENUS	0.6		1.3		0.9		0.7		0.0	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	*	0	--	-	--	-	--	-
....KIRCHNERIELLA	5	1	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	12	2	--	-	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	15	2	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	*	0	--	-	--	-	--	-
....LOBOMONAS	--	-	12	2	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	*	0	*	0	--	-	--	-
....COCCONEIS	5	1	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	*	0	--	-	--	-
...EUNOTIACEAE										
....EUNOTIA	--	-	9	1	*	0	--	-	*	0
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	--	-	13#	80	--	-
....SYNEDRA	--	-	9	1	*	0	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	5	1	--	-	--	-	--	-	3#	100
...MERIDIONACEAE										
....MERIDION	--	-	*	0	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	14	4	--	-	*	0	3#	20	--	-
...SURIRELLACEAE										
....SURIRELLA	5	1	--	-	--	-	--	-	--	-
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	*	0	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	24	3	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	52#	32	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	320#	91	24	3	110#	68	--	-	--	-
....OSCILLATORIA	--	-	560#	81	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	21	3	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

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01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, MAY 1977 TO SEPTEMBER 1977

DATE TIME	JUN 21,77 1415	AUG 1,77 1430	AUG 23,77 1400	SEP 19,77 1300
TOTAL CELLS/ML	200	1600	1100	2300
DIVERSITY: DIVISION	1.9	1.8	1.0	1.5
.CLASS	2.0	2.1	1.0	1.5
..ORDER	2.6	2.7	1.2	2.0
...FAMILY	3.4	3.1	1.4	2.4
....GENUS	3.7	3.3	2.1	3.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	36	3	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	26	2	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	4	2	13	1	10	1	67	3
....DICTYOSPHAERIUM	--	-	--	-	98	9	--	-
....KIRCHNERIELLA	--	-	45	3	--	-	110	5
....OOCYSTIS	29	15	--	-	--	-	--	-
....SELENASTRUM	--	-	*	0	--	-	--	-
....TETRAEDRON	--	-	19	1	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	19	1	--	-	--	-
....CRUCIGENIA	14	7	--	-	--	-	130	6
....SCENEDESMUS	14	7	26	2	41	4	94	4
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	4	2	--	-	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	77	5	--	-	150	6
..ULOTRICHALES								
...ULOTRICHACEAE								
....URONEMA	14	7	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	27	1
....CHLAMYDOMONAS	4	2	90	6	57	5	94	4
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	*	0	--	-	--	-
....COSMARIUM	4	2	19	1	*	0	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....MELOSIRA	--	-	210	13	--	-	67	3
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	18	9	58	4	--	-	--	-
....COCCONEIS	--	-	*	0	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	4	2	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	*	0	--	-	--	-	27	1
...EUNOTIACEAE								
....EUNOTIA	7	4	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	19	1	*	0	27	1
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	19	1	--	-	27	1
...NAVICULACEAE								
....NAVICULA	--	-	45	3	--	-	27	1
...NITZSCHIACEAE								
....NITZSCHIA	7	4	*	0	--	-	40	2
...TABELLARIACEAE								
....TABELLARIA	4	2	--	-	--	-	120	5
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...MALLOMONADACEAE								
....MALLOMONAS	--	-	*	0	--	-	--	-
...OCHROMONADACEAE								
....DINOBRYON	--	-	13	1	--	-	--	-
....OCHROMONAS	--	-	130	8	--	-	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CHLOROTHECIACEAE								
....OPHIOCYTIUM	--	-	*	0	--	-	--	-

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01066000 SACO RIVER AT CORNISH, ME--Continued

PHYTOPLANKTON ANALYSES, MAY 1977 TO SEPTEMBER 1977--Continued

DATE TIME	JUN 21,77 1415		AUG 1,77 1430		AUG 23,77 1400		SEP 19,77 1300	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	--	-	--	-	660#	58	760#	33
....ANACYSTIS	36#	18	660#	41	190#	16	500#	22
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	11	5	--	-	--	-	13	1
...CRYPTOMONODACEAE								
....CRYPTOMONAS	21	11	*	0	21	2	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	4	2	--	-	10	1	13	1
....TRACHELOMONAS	--	-	26	2	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	*	0	--	-	--	-	--	-
...PERIDINIACEAE								
....PERIDINIUM	--	-	39	2	--	-	--	-

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01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	39	38	39	36	34	35	48	46	47	44	42	43
2	41	39	40	36	32	34	47	46	47	44	43	44
3	45	41	43	35	32	33	48	42	46	45	43	44
4	45	43	44	36	34	35	48	46	47	46	45	45
5	46	44	45	37	36	36	50	48	49	45	44	45
6	46	45	46	38	36	37	51	49	50	45	44	45
7	49	46	47	38	35	36	55	45	52	45	45	45
8	49	47	48	37	34	34	51	49	51	46	45	46
9	48	45	46	35	34	34	50	47	48	46	45	46
10	47	45	46	36	35	35	49	44	46	46	46	46
11	44	30	36	38	36	37	47	45	46	47	46	45
12	32	30	31	39	36	37	49	45	47	47	46	46
13	35	31	32	39	37	38	49	46	48	47	46	46
14	36	34	35	40	38	39	46	44	45	47	46	46
15	38	35	36	41	40	41	49	45	47	48	47	47
16	39	37	38	43	41	42	48	46	47	48	47	47
17	38	36	37	44	41	42	48	47	48	49	47	48
18	37	35	36	44	43	43	47	47	47	48	47	47
19	36	34	35	46	43	45	53	46	49	49	48	48
20	36	36	36	46	44	45	47	45	46	50	48	49
21	39	37	38	45	43	44	47	46	46	---	---	---
22	36	30	34	46	44	44	46	44	45	---	---	---
23	---	---	---	46	45	46	45	44	45	---	---	---
24	---	---	---	47	46	46	45	43	44	---	---	---
25	---	---	---	48	46	46	45	43	44	---	---	---
26	---	---	---	47	46	46	45	43	44	---	---	---
27	---	---	---	49	47	48	44	42	43	43	42	43
28	---	---	---	50	49	49	42	41	42	43	42	43
29	---	---	---	50	48	49	42	41	42	44	43	43
30	35	32	33	49	47	48	43	42	42	44	42	43
31	35	34	35	---	---	---	43	41	42	44	43	44
MONTH	49	30	39	50	32	41	55	41	46	50	42	45

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	46	44	45	57	55	56	45	42	43			
2	47	45	46	57	56	56	42	41	42			
3	48	46	47	60	56	58	44	41	43			
4	49	47	48	60	57	58	43	41	43			
5	49	48	49	61	59	60	43	41	42			
6	50	49	49	60	58	59	43	41	42			
7	50	49	50	59	57	58	42	41	41			
8	51	49	50	60	56	58	43	41	42			
9	52	51	52	63	57	60	43	41	42			
10	53	52	53	65	61	63	45	42	43			
11	53	52	53	62	60	61	46	43	44			
12	54	53	54	61	58	60	51	45	47			
13	55	54	54	59	57	57	51	46	48			
14	56	55	55	56	45	49	50	44	47			
15	56	55	55	45	42	43	44	42	43			
16	56	54	55	43	41	42	45	40	42			
17	56	54	55	44	42	43	45	42	43			
18	56	54	55	42	41	42	45	42	43			
19	57	55	56	44	41	42	44	42	43			
20	58	56	57	45	41	43	44	41	42			
21	57	56	57	46	43	44	45	42	43			
22	57	56	56	46	43	44	44	43	44			
23	57	56	56	46	44	44	44	40	41			
24	56	56	56	46	44	45	39	36	37			
25	59	56	57	47	44	45	---	---	---			
26	59	57	58	50	45	47	---	---	---			
27	58	56	57	51	47	49	---	---	---			
28	59	56	57	52	49	50	---	---	---			
29	---	---	---	54	50	51	---	---	---			
30	---	---	---	54	49	51	---	---	---			
31	---	---	---	52	45	48	---	---	---			
MONTH	59	44	53	65	41	51	51	36	43			

01066000 SACO RIVER AT CORNISH, ME--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	36	33	34	57	45	46	48	46	46
2	---	---	---	39	36	37	46	44	45	74	47	54
3	---	---	---	96	37	55	47	45	46	70	42	53
4	---	---	---	37	36	36	47	45	46	47	45	46
5	---	---	---	39	37	38	52	42	47	48	46	47
6	---	---	---	39	38	38	47	41	45	74	47	53
7	---	---	---	40	39	39	49	46	47	75	45	60
8	---	---	---	40	39	40	---	---	---	75	46	55
9	---	---	---	41	40	40	---	---	---	65	45	56
10	---	---	---	41	40	41	---	---	---	70	45	55
11	---	---	---	41	41	41	---	---	---	50	46	48
12	---	---	---	42	41	41	---	---	---	67	47	51
13	---	---	---	42	40	41	---	---	---	77	46	61
14	---	---	---	41	40	41	---	---	---	65	44	53
15	---	---	---	42	40	41	---	---	---	50	48	49
16	---	---	---	42	41	41	---	---	---	50	46	48
17	---	---	---	44	41	42	---	---	---	47	38	44
18	---	---	---	44	41	42	---	---	---	38	37	38
19	---	---	---	42	41	41	---	---	---	40	38	39
20	---	---	---	44	42	43	---	---	---	40	38	39
21	38	35	37	45	43	44	---	---	---	40	38	39
22	36	35	36	44	43	44	---	---	---	42	40	41
23	35	34	35	44	42	43	---	---	---	41	40	41
24	36	35	35	45	43	44	43	42	43	41	38	40
25	37	36	36	45	42	44	44	42	43	38	37	38
26	36	35	36	45	43	44	47	44	45	39	36	37
27	37	35	36	45	44	45	47	45	46	41	38	39
28	39	37	37	46	43	44	46	45	45	40	32	38
29	39	33	38	45	43	44	46	44	45	32	31	32
30	34	30	32	48	43	45	52	45	46	34	32	33
31	---	---	---	45	44	45	46	45	46	---	---	---
MONTH	39	30	36	96	33	42	57	41	45	77	31	46
PERIOD	96	30	45									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	11.5	12.0	5.5	5.0	5.5	1.5	0.0	1.0	0.0	0.0	0.0
2	12.0	11.5	11.5	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
3	13.0	11.5	12.0	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
4	13.5	11.5	12.5	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
5	14.0	11.5	12.5	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
6	13.5	12.5	13.0	5.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
7	15.0	13.0	14.0	5.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
8	14.5	13.5	14.0	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
9	14.5	14.0	14.0	4.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
10	14.0	12.5	13.5	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
11	12.0	10.0	11.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
12	10.0	8.5	9.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
13	9.0	8.5	9.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
14	9.5	9.0	9.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
15	9.5	9.0	9.0	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
16	9.0	8.5	9.0	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
17	9.0	8.5	8.5	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18	8.5	7.5	8.0	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19	8.0	7.0	7.5	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
20	7.0	6.5	7.0	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
21	7.5	6.5	7.5	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
22	7.5	7.0	7.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
23	7.5	6.5	7.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
24	6.5	6.0	6.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
25	6.5	6.0	6.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26	6.5	6.0	6.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
27	6.0	4.5	5.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
28	4.5	4.0	4.5	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
29	4.5	3.5	4.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
30	5.0	4.0	4.5	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
31	5.5	5.0	5.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	15.0	3.5	9.0	5.5	0.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0

01066000 SACO RIVER AT CORNISH, ME--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5	4.0	10.0	8.5	9.0
2	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.0	3.5	10.5	9.5	10.0
3	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.0	3.5	11.0	10.0	10.5
4	0.0	0.0	0.0	0.5	0.5	0.5	3.5	3.5	3.5	11.0	9.5	10.5
5	0.0	0.0	0.0	0.5	0.5	0.5	4.0	3.0	3.5	12.0	10.0	11.0
6	0.0	0.0	0.0	0.5	0.5	0.5	3.5	2.5	3.0	12.5	11.5	12.0
7	0.0	0.0	0.0	0.5	0.5	0.5	3.5	3.0	3.0	13.0	12.0	12.5
8	0.0	0.0	0.0	0.5	0.5	0.5	3.5	2.5	3.0	12.5	11.5	12.0
9	0.0	0.0	0.0	0.5	0.5	0.5	2.5	2.0	2.5	12.0	10.5	11.0
10	0.0	0.0	0.0	0.5	0.5	0.5	3.0	2.0	2.5	10.5	8.5	9.0
11	0.0	0.0	0.0	0.5	0.5	0.5	4.0	3.0	3.5	8.5	7.5	8.0
12	0.0	0.0	0.0	0.5	0.5	0.5	6.0	4.0	5.0	10.0	8.0	8.5
13	0.0	0.0	0.0	0.5	0.5	0.5	8.0	6.0	6.5	11.0	9.5	10.5
14	0.0	0.0	0.0	0.5	0.5	0.5	8.5	7.5	8.0	12.0	11.0	11.5
15	0.0	0.0	0.0	0.5	0.5	0.5	8.0	7.0	7.5	12.5	11.0	12.0
16	0.0	0.0	0.0	0.5	0.5	0.5	7.5	6.0	7.0	12.5	12.0	12.0
17	0.0	0.0	0.0	0.5	0.5	0.5	8.5	7.0	8.0	14.0	12.0	13.0
18	0.0	0.0	0.0	0.5	0.5	0.5	9.5	8.5	9.0	15.5	14.0	14.5
19	0.0	0.0	0.0	0.5	0.5	0.5	10.0	9.0	9.5	16.0	15.0	15.5
20	0.0	0.0	0.0	0.5	0.5	0.5	10.0	9.5	9.5	16.5	15.0	16.0
21	0.0	0.0	0.0	0.5	0.5	0.5	11.0	9.5	10.0	17.5	15.5	16.5
22	0.0	0.0	0.0	0.5	0.5	0.5	12.0	10.5	11.5	19.0	16.5	18.0
23	0.0	0.0	0.0	0.5	0.5	0.5	11.5	10.5	11.0	21.0	18.0	19.5
24	0.0	0.0	0.0	0.5	0.5	0.5	10.5	8.5	9.5	22.0	19.0	20.5
25	0.0	0.0	0.0	1.0	0.5	0.5	8.5	7.0	7.5	22.5	20.5	21.5
26	0.0	0.0	0.0	2.0	1.0	1.5	7.0	7.0	7.0	22.0	19.5	21.0
27	0.0	0.0	0.0	3.0	1.5	2.0	7.5	7.0	7.5	21.0	19.0	20.0
28	0.0	0.0	0.0	3.5	2.5	3.0	8.5	8.0	8.0	19.0	17.0	18.0
29	---	---	---	4.5	3.5	4.0	8.0	7.5	8.0	17.5	16.0	16.5
30	---	---	---	5.5	3.5	4.5	9.0	8.0	8.5	17.5	15.0	16.0
31	---	---	---	5.0	4.5	5.0	---	---	---	18.5	15.5	16.5
MONTH	0.0	0.0	0.0	5.5	0.0	1.0	12.0	2.0	6.5	22.5	7.5	14.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	16.5	17.0	22.0	21.5	22.0	23.5	21.5	22.5	24.5	21.5	23.0
2	17.5	17.5	17.5	23.0	21.0	22.0	25.5	21.5	23.5	25.5	23.0	23.5
3	17.5	16.0	17.0	23.5	18.5	21.0	25.0	22.0	23.5	24.5	22.5	23.5
4	16.5	15.5	16.0	22.0	21.0	21.5	26.5	23.0	24.5	24.5	21.0	22.5
5	16.0	15.5	15.5	23.5	21.0	22.0	26.5	24.0	25.0	22.5	21.0	21.5
6	16.0	15.0	15.5	23.5	20.5	21.5	25.5	24.0	24.5	24.0	20.5	21.5
7	15.5	15.0	15.5	24.0	20.5	22.0	26.5	21.5	25.0	22.5	17.0	20.0
8	16.0	15.0	15.5	21.5	21.0	21.0	---	---	---	22.0	16.0	19.0
9	16.0	14.5	15.0	23.0	20.5	21.5	---	---	---	20.5	15.5	18.0
10	15.0	14.5	15.0	24.0	20.5	22.0	---	---	---	20.0	16.0	18.0
11	14.5	14.0	14.5	23.5	20.0	21.5	---	---	---	20.5	18.0	19.0
12	15.0	14.5	14.5	22.0	21.0	21.5	---	---	---	18.0	16.0	17.0
13	17.0	14.5	15.5	23.0	21.0	22.0	---	---	---	17.0	15.0	16.0
14	18.0	16.0	17.0	24.0	21.0	22.5	---	---	---	17.5	15.5	16.5
15	19.5	17.0	18.0	25.0	21.0	23.0	---	---	---	17.5	15.0	16.0
16	20.0	18.0	19.0	26.5	22.5	24.5	---	---	---	15.5	15.0	15.5
17	19.0	18.5	19.0	25.5	23.5	24.5	---	---	---	15.0	15.0	15.0
18	19.5	18.5	18.5	28.0	24.5	26.0	---	---	---	17.0	15.0	16.0
19	19.5	18.0	18.5	28.5	24.5	26.5	---	---	---	18.0	16.0	17.0
20	21.0	18.0	19.5	28.5	25.5	27.0	---	---	---	17.5	15.5	16.0
21	21.0	19.0	20.0	28.5	27.0	28.0	---	---	---	15.5	14.5	15.0
22	20.5	20.0	20.0	28.5	25.5	26.5	---	---	---	15.5	14.0	14.5
23	20.5	19.5	20.0	27.0	24.0	25.5	---	---	---	14.5	13.0	14.0
24	21.0	18.5	20.0	27.0	24.0	25.5	19.0	18.5	19.0	14.0	13.0	13.5
25	20.5	20.0	20.0	25.0	23.5	24.0	20.0	17.5	18.5	14.0	12.5	13.5
26	20.5	20.0	20.0	24.0	22.0	23.0	20.5	17.0	18.5	13.5	13.0	13.5
27	22.0	20.0	21.0	24.0	20.5	22.0	21.0	17.0	19.0	14.0	13.0	13.5
28	23.0	20.5	21.5	24.5	20.0	22.0	23.0	19.5	21.0	14.0	12.5	13.5
29	22.0	21.5	21.5	23.0	20.5	21.5	24.0	20.5	22.0	13.5	12.5	13.0
30	23.5	20.5	22.0	22.0	20.5	21.5	23.5	21.5	22.5	14.0	13.0	13.5
31	---	---	---	25.0	20.5	22.5	23.5	21.5	22.5	---	---	---
MONTH	23.5	14.0	18.0	28.5	18.5	23.0	26.5	17.0	22.0	25.5	12.5	17.0
YEAR	28.5	0.0	9.0									

01066500 LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME

LOCATION.--Lat 43°41'22", long 70°40'15", York County, Hydrologic Unit 01060002, on right bank 25 ft (8 m) upstream from highway bridge, 2 mi (3 km) southeast of South Limington, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--161 mi^2 (417 km^2).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 273.84 ft (83.466 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds, combined capacity, 581,000,000 ft^3 (16,450,000 m^3). Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 291 ft^3/s (8.241 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,760 ft^3/s (163 m^3/s) Mar. 15, 1977, gage height, 7.04 ft (2.146 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Oct. 7, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 8,530 ft^3/s (242 m^3/s) Mar. 19, 1936, at Ledgemere Dam 3.6 mi (5.8 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,760 ft^3/s (163 m^3/s) Mar. 15, gage height, 7.04 ft (2.146 m); minimum daily, 5.2 ft^3/s (0.147 m^3/s) Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	266	144	125	120	327	1760	365	105	198	48	7.7
2	70	259	137	125	120	324	1470	342	113	173	71	6.2
3	70	234	306	125	120	294	1310	326	133	146	91	5.7
4	72	223	799	125	120	309	1540	315	138	135	99	5.2
5	72	217	779	125	120	348	1410	311	138	117	90	5.2
6	73	236	725	125	120	393	1360	203	137	99	90	6.3
7	73	240	656	125	120	430	1240	73	141	88	90	34
8	97	239	622	125	120	376	1010	145	159	86	84	84
9	125	233	441	125	120	349	905	276	165	97	78	89
10	141	213	54	125	120	366	824	499	162	89	119	59
11	199	211	21	125	120	484	734	866	178	80	121	58
12	134	228	100	125	120	614	601	850	207	76	121	41
13	16	234	172	125	155	784	530	543	217	82	120	43
14	19	211	231	125	218	2090	584	368	203	83	119	56
15	88	188	153	120	346	4880	650	364	186	81	89	56
16	161	176	150	120	670	4090	647	279	164	80	20	26
17	183	163	145	120	410	2700	524	153	145	76	18	8.2
18	189	154	145	120	31	2010	471	192	136	70	16	6.3
19	164	144	140	120	16	1540	450	210	151	62	12	27
20	154	138	140	120	14	1280	445	218	158	56	11	102
21	601	130	140	120	13	1090	338	217	160	56	12	125
22	735	124	135	120	90	950	41	210	165	59	14	134
23	583	124	135	120	121	861	51	198	159	49	18	131
24	277	119	130	120	117	828	75	184	162	47	23	119
25	143	119	130	120	298	789	114	172	154	48	33	108
26	252	118	130	120	352	729	467	155	161	61	47	116
27	280	121	130	120	302	693	744	142	219	53	47	220
28	268	126	130	120	303	710	706	127	223	48	47	256
29	246	142	130	120	---	846	472	121	207	46	47	235
30	219	158	130	120	---	1270	398	117	218	45	46	175
31	221	---	130	120	---	1660	---	111	---	46	34	---
TOTAL	5995	5488	7510	3790	4896	34414	21871	8652	4964	2532	1875	2344.8
MEAN	193	183	242	122	175	1110	729	279	165	81.7	60.5	78.2
MAX	735	266	799	125	670	4880	1760	866	223	198	121	256
MIN	16	118	21	120	13	294	41	73	105	45	11	5.2

CAL YR 1976 TOTAL 99782.0 MEAN 273 MAX 1890 MIN 15
WTR YR 1977 TOTAL 104331.8 MEAN 286 MAX 4880 MIN 5.2

01069500 MOUSAM RIVER NEAR WEST KENNEBUNK, ME

LOCATION.--Lat 43°25'04", long 70°39'32", York County, Hydrologic Unit 01060003, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), from topographic map.

REMARKS.--Records good. Flow regulated by Square Pond and Mousam and Estes Lakes, combined capacity, about 700,000,000 ft³ (20,000,000 m³) and powerplants upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--38 years, 179 ft³/s (5.069 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s (100 m³/s) Mar. 14, 1977, gage height, 5.82 ft (1.774 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Nov. 10, 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,540 ft³/s (100 m³/s) Mar. 14, gage height, 5.82 ft (1.774 m); minimum daily, 2.7 ft³/s (0.076 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	49	7.1	6.1	173	324	1030	359	8.2	94	14	21
2	109	165	119	6.1	162	268	911	356	8.8	9.6	15	22
3	109	173	177	6.1	170	252	945	345	10	10	16	18
4	106	170	156	90	117	238	976	325	34	12	17	19
5	169	170	138	175	4.7	328	893	314	257	11	17	19
6	168	166	136	173	4.6	362	961	321	232	8.5	17	21
7	160	162	138	61	4.8	331	802	244	178	13	17	100
8	108	159	138	5.3	4.8	308	703	181	176	110	17	183
9	15	158	96	5.2	4.8	295	632	180	175	80	15	112
10	100	56	6.9	6.2	4.8	342	580	332	123	61	11	14
11	95	7.4	8.3	22	4.8	470	537	477	7.8	39	12	13
12	100	7.2	158	248	4.9	576	512	363	7.9	36	12	9.2
13	104	7.4	176	183	5.5	710	493	342	7.9	40	13	6.3
14	177	7.7	177	66	5.3	2660	476	319	109	41	14	6.2
15	31	7.8	176	71	107	2240	403	270	176	32	15	2.9
16	90	109	121	384	173	1560	336	249	176	31	15	3.0
17	93	161	6.6	250	173	1250	310	224	175	31	16	2.9
18	162	159	6.6	174	92	983	268	187	62	30	18	2.7
19	152	59	95	103	4.8	793	226	182	8.3	29	15	4.9
20	132	8.1	179	114	4.8	684	214	182	9.1	23	17	102
21	255	7.4	178	125	4.8	615	209	182	126	26	15	54
22	280	7.1	176	5.3	108	595	201	124	179	103	17	6.8
23	224	118	176	5.2	171	591	238	131	178	185	23	7.1
24	188	176	69	5.2	58	593	372	188	69	79	23	7.5
25	173	176	6.6	5.5	52	569	511	187	8.1	17	24	40
26	242	72	6.6	5.6	129	568	433	183	9.4	15	20	130
27	188	7.1	93	5.7	85	568	371	66	9.1	12	19	193
28	180	7.1	176	5.7	307	625	353	7.2	11	12	21	137
29	174	7.3	176	5.8	---	788	307	7.1	119	12	20	141
30	120	7.1	175	5.9	---	1010	329	7.1	181	13	22	130
31	9.4	---	76	118	---	1140	---	7.7	---	13	21	---
TOTAL	4300.4	2546.7	3523.7	2441.9	2140.4	22636	15532	6842.1	2830.6	1228.1	528	1528.5
MEAN	139	84.9	114	78.8	76.4	730	518	221	94.4	39.6	17.0	51.0
MAX	280	176	179	384	307	2660	1030	477	257	185	24	193
MIN	9.4	7.1	6.6	5.2	4.6	238	201	7.1	7.8	8.5	11	2.7

CAL YR 1976 TOTAL 61712.4 MEAN 169 MAX 1030 MIN 6.6
WTR YR 1977 TOTAL 66078.4 MEAN 181 MAX 2660 MIN 2.7

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† Monthend contents, in millions of cubic feet, in Square Pond and Mousam Lake; records furnished by town of Sanford.

01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, Hydrologic Unit 01060003, on right bank just downstream from Milton Pond at Milton.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). See table below for figures of monthend contents. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 204 ft³/s (5.777 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 15, 1977, gage height, 6.50 ft (1.981 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 30, Sept. 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 15, gage height, 6.50 ft (1.981 m); minimum daily, 35 ft³/s (0.91 m³/s) July 29-31, Aug. 29, 30, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	209	121	70	46	147	1360	237	57	77	36	35
2	122	205	109	63	46	161	1160	219	43	73	36	38
3	112	196	100	56	45	176	995	164	44	65	36	42
4	110	191	92	54	45	161	1070	96	48	57	36	41
5	101	179	84	53	46	179	1040	112	48	54	36	40
6	96	175	110	52	48	195	1010	122	48	57	36	38
7	118	177	139	52	49	209	950	130	48	54	36	36
8	120	179	199	54	50	223	649	130	48	50	36	36
9	112	175	237	57	52	223	531	133	48	49	36	36
10	115	170	236	59	53	223	531	281	49	49	36	36
11	110	155	221	60	56	257	514	525	46	48	36	36
12	104	145	202	60	56	313	481	537	63	48	36	36
13	94	135	180	72	57	418	433	399	102	46	36	36
14	115	124	158	72	59	1620	326	277	117	46	36	36
15	120	154	140	70	60	3220	265	261	107	46	36	36
16	108	166	131	68	60	2140	305	234	114	45	36	36
17	103	148	123	67	59	1440	309	167	130	42	36	36
18	117	133	113	67	59	1030	199	93	109	42	36	36
19	118	123	106	65	57	775	133	109	96	40	36	36
20	111	116	100	65	57	663	144	112	67	41	36	36
21	202	108	133	63	56	502	105	114	52	40	36	36
22	329	124	147	63	56	418	70	114	52	40	36	53
23	351	130	130	62	56	433	122	112	52	37	36	79
24	310	119	119	62	56	423	257	105	52	37	36	90
25	284	108	114	63	75	423	470	96	52	36	36	96
26	267	99	105	54	93	413	556	72	57	36	36	176
27	239	92	98	52	114	394	514	53	73	36	36	269
28	232	91	93	52	136	389	423	53	85	36	36	277
29	222	107	85	49	---	449	322	53	87	35	35	273
30	209	133	85	49	---	713	265	56	87	35	35	241
31	199	---	77	46	---	1180	---	63	---	35	36	---
TOTAL	5080	4366	4087	1851	1702	19510	15509	5229	2081	1432	1114	2328
MEAN	164	146	132	59.7	60.8	629	517	169	69.4	46.2	35.9	77.6
MAX	351	209	237	72	136	3220	1360	537	130	77	36	277
MIN	94	91	77	46	45	147	70	53	43	35	35	35
†	860.5	729.2	661.5	653.7	701.4	1190.2	1204.2	1215.2	1242.6	1134.8	1063.2	1035.6

CAL YR 1976 TOTAL 65892 MEAN 180 MAX 1400 MIN 24
WTR YR 1977 TOTAL 64289 MEAN 176 MAX 3220 MIN 35

† Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast and Town House Ponds; records furnished by New Hampshire Water Resources Board.

NOTE.--No gage-height record Dec. 25 to Jan. 13, Jan. 16-23, Jan. 27 to Mar. 4, Aug. 18-28.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		St. John River basin				
Aroostook River	St. John River	Lat 46°42'13", long 68°0'34" Aroostook County, upstream side of bridge on U. S. Route 1, near Presque Isle, Me.			04-24-77	29,500
Little Madawaska River	Aroostook River	Lat 46°33'15", long 67°56'45" Aroostook County, upstream side of bridge on State Highway 89 near Caribou, Me.			04-24-77	4,230
		Penobscot River basin				
Mattawamkeag River	Penobscot River	Lat 45°43'15", long 67°59'31", Aroostook County, downstream side of bridge on Bancroft Road at South Bancroft, Me.			05-04-77	4,470
Medunkeunk Stream	Penobscot River	Lat 45°24'46", long 68°31'07", Penobscot County, upstream side of bridge on town road near Chester, Me.			05-04-77	208
Medunkeunk Stream	Penobscot River	Lat 45°25'36", long 68°31'08", Penobscot County, upstream side of bridge on State Highway 116 near Chester, Me.			05-04-77	235
Piscataquis River	Penobscot River	Lat 45°14'00", long 68°57'30", Piscataquis County, upstream side of bridge on State Highway 11 near Milo, Me.			05-04-77	2,960
		St. George River basin				
St. George River	Atlantic Ocean	Lat 44°07'23", long 69°14'40", Knox County, upstream side of bridge on State Highway 90 at Warren, Me.			09-26-77	100
		Pemaquid River basin				
Tributary B	Little Pond	Lat 44°02'05", long 69°28'40" Lincoln County, 100 ft (30m) upstream from mouth, near Damariscotta, Me.		1976	04-20-77 07-19-77	0.01 0.04
Outlet of Little Pond	Biscay Pond	Lat 44°02'31", long 69°28'01", Lincoln County, 20 ft (6m) downstream from dam at outlet of Little Pond, near Damariscotta, Me.		1976	03-18-77 03-29-77 04-20-77 05-27-77	9.4 2.6 1.1 0.4
		Kennebec River basin				
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake, near Rockwood, Me.			05-26-77	85.
Sandy River	Kennebec River	Lat 44°48'10", long 70°13'18", Franklin County, downstream side of bridge on State Highway 145 at Strong, Me.			09-09-77 09-20-77	78 127
Messalonskee Stream	Kennebec River	Lat 44°34'00", long 68°39'04", Kennebec County at highway bridge on North Street at Waterville, Me.		1972-3	05-06-77	742
Dese Stream	Maranacook Lake	Lat 44°23'20", long 69°58'24", Kennebec County, left bank, 7 ft (2m) upstream from culvert on State Highway 41, at Readfield, Me.	9.73	1975-6	05-16-77	11.
Mill Stream	Lake Annabessacook	Lat 44°18'24", long 69°58'18", Kennebec County, 500 ft (152 m) below bridge on Main Street at Winthrop, Me.	32.9	1975-6	05-16-77 08-05-77 09-12-77	42. 20. 3.9

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--CONTINUED

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Kennebec River basin--Continued				
Hoyt Brook	Lake Annabessacook	Lat 44°16'54", long 69°59'14", Kennebec County, upstream side of culvert on the Annabessacook Road, near Winthrop, Me.	3.50	1975-6	05-16-77	1.9
Carlton Stream	Upper Narrows Lake	Lat 44°19'26", long 69°55'40", Kennebec County, 4.5 ft (1.4m) upstream from culvert on State Highway 135, near East Winthrop, Me.	3.42	1975-6	05-16-77	0.4
Lower Narrows Pond Outlet	Lake Annabessacook	Lat 44°19'33", long 70°01'32" Kennebec County, on left bank, 5 ft (1 m) upstream from culvert on town road, near Winthrop, Me.	9.45	1976	05-16-77 08-16-77 09-17-77 09-26-77	7.5 1.0 1.8 1.1
Dexter Pond Outlet	Wilson Pond	Lat 44°18'36", long 70°02'17" Kennebec County, upstream side of bridge on town road, near Wayne, Me.		1976	08-17-77	19.
Wilson Stream	Lake Annabessacook	Lat 44°16'04", long 70°01'16" Kennebec County, on left upstream wingwall of the culvert on U. S. Highway 202, near No. Monmouth, Me.	17.6	1975-6	05-13-77	18.
Wilson Stream	Wilson Stream	Lat 44°14'34", long 70°01'18", Kennebec County, 30 ft (9m) upstream from culvert on State Highway 135, at Monmouth, Me.	8.16	1975-6	05-13-77	24.
Jock Stream	Cobbosseecontee Lake	Lat 44°11'04", long 69°59'48" Kennebec County, upstream side of bridge on town road, at South Monmouth, Me.	13.6	1975-6	05-13-77	15
Western Brook	Cobbosseecontee Lake	Lat 44°19'30", long 69°51'30" Kennebec County on right bank, 2.5 ft (0.8 m) upstream from culvert at the intersection of U. S. Highway 202 and Winthrop Street, at Manchester, Me.	0.94	1975-6	05-16-77	0.4
Woodbury Pond Outlet Stream	Cobbosseecontee Lake	Lat 44°12'54", long 69°55'56" Kennebec County, downstream side of bridge on the Hallowell Road, at Litchfield, Me.	15.7	1975-6	05-16-77	66
Cobbosseecontee Stream	Kennebec River	Lat 44°10'45", long 69°51'21" Kennebec County, upstream side of bridge on Pond Road, near Gardiner, Me.		1976	09-22-77 09-27-77	309 410
Potters Brook	Pleasant Pond	Lat 43°08'54", long 69°55'30" Kennebec County, upstream headwall of box culvert on Pond Road, near Litchfield Plains, Me.	5.17	1976	05-16-77	5.6
Magotty Meadow Brook	Pleasant Pond	Lat 43°06'54", long 69°54'36", Kennebec County, 25 ft (8 m) upstream from culvert on State Highway 197, near Richmond, Me.	6.76	1975-6	05-16-77	4.4
		Androscoggin River basin				
Kennebago River	Mooselookmeguntic Lake	Lat 44°59'04", long 70°47'15", Franklin County, downstream side of bridge on State Highway 16, near Rangeley, Me.			04-22-77	1860
Lovejoy Pond	Pocasset Lake	Lat 44°22'28", long 10°02'07" Kennebec County upstream side of bridge on town road at North Wayne, Me.			08-17-77	26
West Branch Nezinscot River	Nezinscot River	Lat 44°17'53", long 70°23'21" Oxford County, upstream side of bridge on town road near North Buckfield, Me.			06-30-77 08-04-77 08-18-77 09-09-77	80 4.4 60. 3.6
East Branch Nezinscot River	Nezinscot River	Lat 44°18'07", long 70°21'39" Oxford County, upstream side of bridge on State Highway 140 at Buckfield, Me.			06-30-77 08-04-77 08-18-77 09-09-77	69. 5.3 62. 3.9

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--CONTINUED

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Androscoggin River basin--Continued				
Lively Brook	Martin Stream	Lat 44°18'03", long 70°15'09" Androscoggin County, upstream end of culvert on town road near Turner, Me.			06-30-77 08-04-77 08-18-77 09-09-77	8.6 1.0 5.6 1.0
Martin Stream	Nezinscot River	Lat 44°15'35", long 70"17'32" Androscoggin County upstream side of bridge on State Highway 117 at Chase Mills, Me.			06-30-77 08-04-77 08-18-77 09-09-77	58. 8.6 33. 7.6
Little Androscoggin River	Androscoggin River	Lat 44°14'56", long 70°31'00" Oxford County 1.5 mi (2.4 km) upstream from bridge on State Highway 26 at South Paris, Me.			05-17-77	77.
Stony Brook	Little Androscoggin River	Lat 44°13'23", long 70°30'24" Oxford County, upstream side of bridge on State Highway 117, at South Paris, Me.	14.7	1975-6	05-17-77	15
Winter Brook	Hogan Pond	Lat 44°04'36", long 70°26'10" Androscoggin County, at bridge on town road, near Mechanic Falls, Me.		1976	04-19-77 07-08-77	31 4.8
Little Androscoggin River	Androscoggin River	Lat 44°06'37", long 70°25'03" Androscoggin County, downstream side of bridge on Lane Road, near Mechanic Falls, Me.	231	1975-6	05-17-77	303
Lapham Brook	Taylor Pond	Lat 44°08'57", long 70°17'08" Androscoggin County, upstream side of bridge on town road at West Auburn, Me.			05-10-77 07-08-77	20. 0.8
Lapham Brook	Taylor Pond	Lat 44°07'40", long 70°16'38" Androscoggin County, upstream side of bridge on town road, near Young Corner, Me.	7.99	1976	04-20-77 05-10-77	14 23.
Hodgkins Brook	Taylor Pond	Lat 44°06'36", long 70°17'50" Androscoggin County, downstream end of culvert on town road, near Auburn, Me.		1976	04-20-72	2.4
Taylor Brook	Little Androscoggin River	Lat 44°05'58", long 70°16'02" Androscoggin County, upstream side of bridge on town road, near Auburn, Me.		1976	04-20-77 07-08-77	46. 5.8
Sabattus River	Androscoggin River	Lat 44°07'12", long 70°06'32" Androscoggin County, 75 ft (23 m) below bridge, at Sabattus, Me.	34.2	1975-6	05-13-77	37.
Sabattus River	Androscoggin River	Lat 44°04'29", long 70°06'17" Androsciggin County, upstream side of bridge on Crowley Road, near Robinson Corner, Me.	47.9	1975-6	05-13-77	53
No Name Brook	Sabattus River	Lat 44°04'20", long 70°08'29" Androscoggin County, 100 ft (30 m) upstream of culvert on Webster Road, near South Lewiston, Me.	11.3	1975-6	05-11-72	31
Androscoggin River	Kennebec River	Lat 43°55'03", long 69°58'25" Cumberland County, upstream side of foot bridge, 0.3 mi (0.5 km) upstream on U. S. Route 1, from corner of U. S. Route 201 at Brunswick, Me.		1976	03-17-77 03-18-77 03-22-77 07-27-77	35,900 25,800 14,600 3,280
		Royal River basin				
Royal River	Atlantic Ocean	Lat 43°52'04", long 70"15'40" Cumberland County, upstream side of bridge on North Road, near Gray Station, Me.	74.0	1975-6	05-09-77	89

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--CONTINUED

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Royal River basin--Continued				
Royal River	Atlantic Ocean	Lat 43°51'54", long 70°14'26" Cumberland County, upstream side of bridge on State Highway 231, near North Yarmouth, Me.	77.8	1975-6	05-09-77	96
Chandler Brook	Royal River	Lat 45°53'02", long 70°13'38" Cumberland County, downstream side of bridge on town road 1.3 mi (2.1 km) above mouth of Kenny Brook, near West Pownal, Me.	23.1	1975-6	05-09-77	16.
Kenny Brook	Chandler Brook	Lat 43°52'22", long 70°12'52" Cumberland County, 50 ft (15 m) upstream from bridge on Mount Fort Road, near Crockett Corner, Me.	27.7	1975-6	05-09-77	18.
Chandler Brook	Royal River	Lat 43°51'40", long 70°13'15" Cumberland County, upstream side of bridge on North Road, near North Yarmouth, Me.	53.6	1975-6	05-09-77	39.
		Presumpscot River basin				
Stevens Brook	Long Lake	Lat 44°03'16", long 70°42'34" Cumberland County, 50 ft (15 m) upstream from bridge on U. S. Highway 302, at Bridgton, Me.	20.0	1975-6	05-17-77	29.0
Willett Brook	Stevens Brook	Lat 44°02'42", long 70°42'18" Cumberland County, 50 ft (15 m) upstream from bridge on town road, 0.6 mi (1.0 km) upstream from mouth, near Bridgton, Me.	19.6	1975-6	05-17-77	21
Crooked River	Songo River	Lat 44°09'12", long 70°36'16" Cumberland County, downstream side of bridge on State Highway 117, near Otisfield, Me.	96.8	1975-6	05-17-77	110
Crooked River	Songo River	Lat 44°00'06", long 70°34'24" Cumberland County, on right bank 0.3 mi (0.5 km) upstream from bridge on town road, near Edes Falls, Me.	127	1975-6	05-11-77	283
Muddy River	Sebago Lake	Lat 43°57'00", long 70°37'44" Cumberland County, on left bank 75 ft (23 m) upstream from bridge on town road, 2.1 mi (3.4 km) southwest of Naples, near Naples, Me.	9.96	1975-6	05-13-77	19
Bachelder Brook	Sebago Lake	Lat 43°53'30", long 70°37'50" Cumberland County, on right bank 20 ft (6 m) upstream from culvert on State Highway 114, near North Sebago, Me.	2.36	1975-6	05-13-77	5.3
Northwest River	Sebago Lake	Lat 43°51'44", long 70°38'34" Cumberland County, on right bank 400 ft (122 m) upstream from bridge on State Highway 114, near East Sebago, Me.	22.3	1975-6	05-13-77	67
Rich Mill Pond Outlet	Sebago Lake	Lat 43°47'00", long 70°33'56" Cumberland County, upstream side of bridge 100 ft (30 m) upstream from bridge on State Highway 114, near Richville, Me.	6.39	1975-6	05-13-77	15
Thomas Pond Outlet Brook	Sebago Lake	Lat 43°54'30", long 70°30'52" Cumberland County, 150 ft (46 m) downstream from bridge on Hawthorne Road, at South Casco, Me.	5.18	1975-6	05-16-77	11.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--CONTINUED

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Presumpscot River basin--Continued				
Windham Dump Brook	Sebago Lake	Lat 43°52'30", long 70°27'54" Cumberland County, 6.5 ft (2.0 m) upstream from culvert on U. S. Highway 302, near Windham, Me.	1.43	1975-6	05-16-77	2.1
Pleasant River	Presumpscot River	Lat 43°47'12", long 70°25'18" Cumberland County, upstream side of bridge on Pope Road, at Popeville, Me.	46.8	1975-6	05-11-77	171
Martin Brook	Little River	Lat 43°42'18", long 70°28'20" Cumberland County, 0.5 mi (0.8 km) northwest from end of Rust Road, near Gorham, Me.	1.32	1976	05-16-77	.77
Little River	Presumpscot	Lat 43°43'16", long 70°25'28" Cumberland County, upstream side of bridge on U. S. Highway 202, at South Windham, Me.	49.2	1975-6	05-11-77	296
Piscataqua River	Presumpscot River	Lat 43°44'16", long 70°17'40" Cumberland County, downstream side of left culvert on Leighton Road, near Falmouth, Me.	20.9	1975-6	05-17-77	26
East Branch Piscataqua River	Presumpscot River	Lat 43°44'18", long 70°17'16" Cumberland County, upstream side of bridge on Falmouth Road, near Falmouth, Me.	20.0	1975-6	05-17-77	11
		Coastal Drainage basins				
Moses Brook	Scarborough River	Lat 43°35'10", long 70°21'19" Cumberland County, upstream end of culvert on U. S. Route 1, near Scarborough, Me.	1.67	1976	05-16-77	1.2
		Saco River basin				
Saco River	Atlantic Ocean	Lat 40°01'45", long 70°55'15" Oxford County upstream side of bridge on U. S. Highway 302, near Fryeburg, Me.	652	1975	04-21-77	4,470
		Mousam River basin				
Mousam River	Atlantic Ocean	Lat 43°28'04", long 70°47'52" York County, downstream side of bridge on Bridge Street, at Springvale, Me.		1975-6	05-09-77	23
Mousam River	Atlantic Ocean	Lat 43°25'54°, long 70°45'42" York County, downstream side of bridge on School Street, near Sanford, Me.		1975-6	05-09-77	28
Mousam River	Atlantic Ocean	Lat 43°23'05", long 70°32'34" York County, downstream side of bridge on U. S. Highway 1, at Kennebunk, Me.		1975-6	05-11-77	542
		Piscataqua River basin				
Great Works	Salmon Falls River	Lat 43°19'03", long 70°44'22" York County, upstream side of bridge on State Highway 4, near North Berwick, Me.	23.4	1976	05-09-77	39
Great Works River	Salmon Falls River	Lat 43°14'50", long 70°43'39" York County, on right bank, 60 ft (18 m) upstream of bridge on Hopper Sand Road, at Emery's Bridge, Me.	66.0	1976	05-09-77	81

MISCELLANEOUS TEMPERATURE AND SPECIFIC CONDUCTANCE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
ST. JOHN RIVER BASIN							
01010100 - SHIELDS BR BIG BLACK RIVER NR SEVEN ISLANDS, ME (LAT 46 56 30 LONG 069 38 58)							
APR , 1977				JUL , 1977			
07...	1215	.0	67	27...	1115	13.5	110
26...	1145	1.0	40				
MAY							
31...	1800	18.0	85				
01013500 - FISH RIVER NEAR FORT KENT, ME (LAT 47 14 14 LONG 068 34 56)							
OCT , 1976				APR , 1977			
05...	1040	10.5	95	25...	1015	.0	78
NOV				JUN			
17...	1055	.5	77	01...	1115	11.0	78
DEC				JUL			
16...	1515	.0	105	20...	1105	15.0	80
JAN , 1977				AUG			
18...	1720	.0	130	23...	1045	15.0	70
FEB				SEP			
23...	1305	.0	85	28...	0900	11.0	70
APR							
12...	1105	.0	85				
01014000 - ST. JOHN RIVER BELOW FISH R, AT FORT KENT, ME (LAT 47 15 27 LONG 068 35 35)							
OCT , 1976				FEB , 1977			
05...	1250	13.0	70	23...	1720	.0	98
NOV				APR			
17...	1510	1.0	80	06...	0910	1.0	--
DEC				12...	1105	.0	83
15...	1420	.0	95				
JAN , 1977							
18...	1430	.0	110				
01015800 - AROOSTOOK RIVER NEAR MASARDIS, ME (LAT 46 31 21 LONG 068 22 23)							
OCT , 1976				APR , 1977			
07...	1300	14.0	58	11...	1510	.0	53
NOV				23...	1620	.0	35
18...	1105	.0	60	MAY			
DEC				31...	1540	20.0	55
17...	1305	.0	65	AUG			
JAN , 1977				22...	1515	15.0	56
20...	1420	.0	75	SEP			
FEB				26...	1600	9.0	70
25...	1205	.0	68				
01016500 - MACHIAS RIVER NEAR ASHLAND, ME (LAT 46 37 42 LONG 068 26 07)							
OCT , 1976				APR , 1977			
07...	0955	11.5	62	24...	1500	.0	156
NOV				MAY			
18...	1005	.0	64	31...	1655	20.0	56
DEC				JUL			
15...	1050	.0	85	19...	1300	15.0	71
JAN , 1977				AUG			
18...	1055	.0	113	22...	1540	13.0	75
FEB				SEP			
25...	1000	.0	75	26...	1600	9.0	68
APR							
11...	1505	.0	52				
01017000 - AROOSTOOK RIVER AT WASHBURN, ME (LAT 46 46 36 LONG 068 09 29)							
OCT , 1976				MAY , 1977			
04...	1830	11.0	81	31...	1840	19.0	170
NOV				JUL			
16...	1455	.0	85	19...	0900	17.0	196
DEC				AUG			
17...	0905	.0	92	22...	1630	14.0	135
JAN , 1977				23...	0910	15.0	158
20...	1145	.0	95	SEP			
FEB				27...	0955	10.5	88
22...	1720	.0	120				
APR							
11...	1705	.0	75				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ST. JOHN RIVER BASIN.--Continued

01017900 - MARLEY BROOK NEAR LUDLOW, ME (LAT 46 08 42 LONG 068 03 42)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT , 1976 04...	1320	9.0	138	APR , 1977 23...	0925	.0	56
NOV 16...	1205	.0	109	MAY 31...	1155	12.0	110
DEC 14...	1405	.0	91	JUL 18...	1245	23.0	160
JAN , 1977 17...	1150	.0	110	AUG 23...	1245	11.0	120
FEB 22...	1020	.0	129	SEP 26...	1330	7.0	168
APR 11...	1050	.0	90				

01018000 - MEDUXNEKEAG RIVER NEAR HOULTON, ME (LAT 46 06 17 LONG 067 52 00)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT , 1976 04...	1455	11.0	148	APR , 1977 23...	1205	2.0	169
NOV 16...	1305	.0	119	MAY 31...	1310	17.0	143
DEC 14...	1310	.0	89	JUL 18...	1310	20.0	120
JAN , 1977 17...	1350	.0	94	AUG 22...	1355	16.0	180
FEB 22...	1300	.0	198	SEP 26...	1400	14.0	170
APR 11...	1305	.0	139				

ST. CROIX RIVER BASIN

01018500 - ST. CROIX RIVER AT VANCEBORO, ME (LAT 45 34 08 LONG 067 25 47)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976 10...	1815	2.5	35	APR , 1977 26...	2040	4.0	32
DEC 09...	1400	.0	58	MAY 24...	1240	17.5	28
FEB , 1977 16...	1620	7.0	42	JUL 00...	1520	20.0	31
MAR 22...	1135	3.0	48	SEP 02...	1110	19.0	31

01019000 - GRAND LAKE STREAM AT GRAND LAKE STREAM, ME (LAT 45 10 23 LONG 067 46 06)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976 10...	1650	4.5	25	APR , 1977 26...	1745	3.0	23
DEC 09...	1245	.0	30	MAY 24...	1715	20.0	28
FEB , 1977 16...	1835	.5	32	JUL 27...	1930	20.0	25
MAR 22...	1000	2.0	30	SEP 02...	1325	19.0	27

01020000 - ST. CROIX RIVER NEAR BAILEYVILLE, ME (LAT 45 15 55 LONG 067 28 36)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976 10...	1425	3.0	39	APR , 1977 26...	1545	6.0	28
DEC 09...	1110	.0	--	MAY 27...	1915	20.0	32
FEB , 1977 16...	1935	.0	49	JUL 28...	1015	20.0	31
MAR 22...	0850	.0	44	SEP 21...	1445	13.5	--

01021000 - ST. CROIX RIVER AT BARING, ME (LAT 45 08 12 LONG 067 19 05)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976 10...	1145	4.0	102	APR , 1977 26...	1330	6.0	45
DEC 09...	1700	.0	--	MAY 24...	0815	18.0	61
JAN , 1977 11...	1530	.0	165	JUN 21...	1240	14.0	62
FEB 16...	1410	.5	79	JUL 28...	1435	22.0	111
MAR 22...	1345	1.0	98	SEP 02...	1455	21.5	118

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DENNYS RIVER BASIN

01021200 - DENNYS RIVER AT DENNYSVILLE, ME (LAT 44 54 03 LONG 067 14 56)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1976				APR , 1977			
09...	1640	3.0	38	26...	0950	3.0	40
DEC				MAY			
10...	0900	.0	51	23...	1655	21.0	39
JAN , 1977				JUL			
11...	1410	.0	76	28...	1725	20.0	38
FEB				SEP			
16...	1240	.0	38	02...	1610	20.0	39
MAR							
22...	1500	2.5	40				

MACHIAS RIVER BASIN

01021500 - MACHIAS RIVER AT WHITNEYVILLE, ME (LAT 44 43 23 LONG 067 31 15)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1976				MAR , 1977			
09...	1440	3.0	31	22...	1620	1.0	32
DEC				APR			
10...	1215	.0	21	25...	1845	5.0	24
JAN , 1977				MAY			
11...	1245	.0	47	23...	1310	20.0	28
FEB				JUL			
15...	1650	.0	49	29...	1000	20.0	32

NARRAGUAGUS RIVER BASIN

01022500 - NARRAGUAGUS RIVER AT CHERRYFIELD, ME (LAT 44 36 29 LONG 067 56 10)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1976				MAR , 1977			
09...	1135	2.5	32	22...	1715	.0	28
DEC				APR			
10...	1315	.0	40	25...	1635	5.5	28
JAN , 1977				MAY			
10...	1220	.0	39	23...	1040	19.0	31
FEB				JUL			
15...	1300	.0	42	29...	1200	20.0	36

UNION RIVER BASIN

01023000 - WEST BRANCH UNION RIVER AT AMHERST, ME (LAT 44 50 25 LONG 068 22 22)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				APR , 1977			
27...	1650	5.0	35	25...	1145	5.5	25
NOV				MAY			
19...	1440	3.0	36	25...	1410	23.5	29
DEC				JUL			
08...	1215	.0	36	08...	1650	21.5	29
FEB , 1977				AUG			
04...	1515	.0	52	04...	1345	23.0	34
28...	1610	.0	46				
MAR				SEP			
23...	1100	.0	34	01...	1320	19.0	35

01024200 - GARLAND BROOK NEAR MARIAVILLE, ME (LAT 44 43 17 LONG 068 24 40)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				APR , 1977			
27...	1300	3.0	34	25...	1430	5.5	28
NOV				MAY			
19...	1630	2.0	34	25...	1325	22.0	36
DEC				JUL			
08...	1130	.0	37	08...	1700	17.0	35
FEB , 1977				SEP			
04...	1140	.0	43	01...	1515	18.0	46
28...	1800	.0	51				
MAR							
23...	1215	.0	30				

PENOBSCOT RIVER BASIN

01029500 - EAST BRANCH PENOBSCOT RIVER AT GRINDSTONE, ME (LAT 45 43 49 LONG 068 35 22)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				MAR , 1977			
05...	1915	13.0	42	24...	1115	.0	46
NOV				MAY			
18...	1230	.5	49	02...	0815	5.5	31
DEC				JUN			
17...	1245	.0	46	01...	1620	18.5	34
JAN , 1977				JUL			
26...	0920	.0	50	07...	1530	20.0	35
MAR							
07...	1130	.0	48	26...	0840	18.0	35

PENOBSCOT RIVER BASIN.--Continued

01030000 - PENOBSCOT RIVER NEAR MATTAWAMKEAG, ME (LAT 45 34 01 LONG 068 24 10)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976 05...	1500	14.5	39	MAR , 1977 24...	1225	.0	59
NOV 18...	1315	1.0	50	MAY 02...	1115	6.0	38
DEC 17...	1400	.5	55	JUN 01...	1325	16.5	44
JAN , 1977 26...	1130	.0	51	JUL 07...	1240	20.0	44
MAR 07...	1315	.5	49	26...	1510	20.0	48

01030500 - MATTAWAMKEAG RIVER NEAR MATTAWAMKEAG, ME (LAT 45 30 18 LONG 068 18 07)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976 05...	1000	11.0	57	MAR , 1977 24...	1430	.0	66
NOV 23...	1030	1.0	64	MAY 02...	1630	5.0	32
DEC 17...	1500	.0	71	JUN 01...	0935	18.0	52
JAN , 1977 26...	1400	.0	70	JUL 07...	1125	21.0	51
MAR 07...	1415	.0	72	27...	1315	20.5	57

01031500 - PISCATAQUIS RIVER NEAR DOVER-FOXCROFT, ME (LAT 45 10 31 LONG 069 18 55)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976 06...	1510	12.0	53	MAR , 1977 28...	1140	1.0	54
NOV 17...	1200	1.0	50	APR 27...	1830	5.0	55
DEC 07...	1540	1.0	--	MAY 26...	1605	22.5	47
16...	1030	.0	54	JUL 06...	1020	19.0	44
FEB , 1977 03...	1630	.0	55	AUG 30...	1500	24.0	48
MAR 03...	1200	.5	65				

01031600 - MORRISON BROOK NEAR SEBEC CORNERS, ME (LAT 45 14 17 LONG 069 03 06)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976 08...	1040	14.0	135	APR , 1977 29...	1705	8.0	100
NOV 17...	1445	3.0	110	MAY 06...	1810	19.5	125
DEC 22...	1200	.0	165	JUL 06...	1545	21.0	122
FEB , 1977 01...	1350	.0	190	AUG 05...	1045	21.0	150
MAR 03...	1620	.0	175	31...	1520	17.0	120
25...	1455	.0	120				

01033000 - SEBEC RIVER AT SEBEC, ME (LAT 45 16 12 LONG 069 06 44)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976 06...	1745	15.0	28	APR , 1977 29...	1040	4.5	28
NOV 17...	1400	4.0	29	MAY 27...	1020	19.0	28
DEC 13...	1645	.0	32	JUL 06...	1230	20.0	27
FEB , 1977 01...	1445	.0	37	AUG 31...	1325	22.0	28
MAR 03...	1700	.0	35				
28...	1025	2.0	35				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PENOBSCOT RIVER BASIN.--Continued

01033500 - PLEASANT RIVER NEAR MILO, ME (LAT 45 16 58 LONG 069 00 13)

DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DATE	TIME	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
OCT , 1976				APR , 1977			
08...	1315	14.0	35	29...	1540	6.0	25
NOV				MAY			
18...	0945	2.0	31	27...	1435	18.0	29
DEC				JUL			
16...	1315	.0	40	06...	1515	19.0	29
JAN , 1977				AUG			
27...	1700	.0	--	05...	1130	24.0	33
MAR							
04...	1530	.5	42				
25...	1405	.0	34				

01034000 - PISCATAQUIS RIVER AT MEDFORD, ME (LAT 45 15 40 LONG 068 52 07)

OCT , 1976				APR , 1977			
08...	1615	15.0	41	29...	1300	5.0	30
NOV				MAY			
18...	1040	2.0	40	27...	1525	22.0	39
DEC				JUL			
16...	1500	.0	46	06...	1445	22.0	33
JAN , 1977				AUG			
27...	1315	.0	--	05...	1500	27.0	40
MAR							
04...	1230	.0	64				
25...	1250	.0	40				

01035000 - PASSADUMKEAG RIVER AT LOWELL, ME (LAT 45 11 04 LONG 068 28 29)

OCT , 1976				APR , 1977			
04...	1645	15.0	37	28...	1335	6.0	32
NOV				MAY			
19...	1100	3.0	38	31...	1035	17.0	32
JAN , 1977				JUL			
25...	1115	.0	43	08...	1420	22.0	32
FEB				AUG			
23...	1100	.0	42	03...	1120	21.5	35
MAR							
25...	1005	.0	39				

01036500 - KENDUSKEAG STREAM NEAR KENDUSKEAG, ME (LAT 44 53 48 LONG 068 53 04)

OCT , 1976				APR , 1977			
07...	0950	13.5	164	28...	0955	6.0	85
NOV				MAY			
18...	1310	2.0	152	25...	1120	24.0	139
DEC				JUL			
08...	1535	.0	102	08...	0840	20.0	148
FEB , 1977				SEP			
03...	1430	.0	190	01...	1030	19.0	156
28...	1055	.5	175				
MAR							
23...	1445	.0	89				

PEMAQUID RIVER BASIN

01037700 - TRUBUTARY A LITTLE POND NEAR DAMARISCOTTA, ME (LAT 44 02 44 LONG 069 28 05)

MAR , 1977				MAY , 1977			
18...	1030	.0	33	27...	1230	14.0	47
29...	1045	2.5	31	JUN			
APR				07...	1415	12.5	33
20...	1245	11.0	36	JUL			
MAY				19...	1030	17.0	50
11...	1315	10.0	31				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SHEEPSCOT RIVER BASIN

01038000 - SHEEPSCOT RIVER AT NORTH WHITEFIELD, ME (LAT 44 13 23 LONG 069 35 38)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				MAY , 1977			
05...	1200	11.3	68	02...	0955	9.0	50
NOV				27...	0915	16.0	52
10...	1210	2.5	54	JUN			
DEC				13...	1440	12.5	50
30...	0945	.0	61	JUL			
FEB , 1977				01...	0940	14.0	59
01...	0950	.0	68	AUG			
MAR				01...	1000	21.5	55
01...	0935	.0	70	SEP			
APR				01...	1030	20.0	64
01...	1330	2.0	44				

KENNEBEC RIVER BASIN

01041000 - KENNEBEC RIVER AT MOOSEHEAD, ME (LAT 45 35 08 LONG 069 43 05)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				APR , 1977			
06...	1115	13.5	32	27...	1240	2.0	35
NOV				MAY			
17...	1020	3.5	36	26...	0955	12.0	33
DEC				AUG			
07...	1130	1.0	41	02...	1130	17.5	33
JAN , 1977				SEP			
28...	1510	.0	29	06...	1315	17.0	32
MAR							
01...	1650	.0	42				
28...	1555	1.0	39				

01042500 - KENNEBEC RIVER AT THE FORKS, ME (LAT 45 20 25 LONG 069 57 48)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				MAR , 1977			
12...	0900	9.0	35	11...	1400	1.0	36
NOV				APR			
03...	1145	4.0	34	25...	1315	4.0	31
DEC				AUG			
10...	1200	.0	38	16...	1030	18.0	34
JAN , 1977							
11...	1345	.0	28				

01043500 - DEAD RIVER NEAR DEAD RIVER, ME (LAT 45 13 48 LONG 070 11 58)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				MAR , 1977			
06...	0730	13.0	38	07...	1530	2.0	49
NOV				MAY			
22...	1430	.0	39	02...	1415	3.5	35
DEC				AUG			
09...	1400	.0	22	18...	1630	18.5	35
JAN , 1977							
17...	1630	1.5	49				

01045000 - DEAD RIVER AT THE FORKS, ME (LAT 45 20 59 LONG 069 59 26)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				JAN , 1977			
12...	1115	6.0	38	11...	1315	.0	44
NOV				MAR			
03...	1200	2.0	38	11...	1330	1.0	64
DEC				APR			
10...	1130	.0	46	25...	1330	3.0	29

01047000 - CARRABASSETT RIVER NEAR NORTH ANSON, ME (LAT 44 52 09 LONG 069 57 20)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976				MAR , 1977			
06...	1330	11.5	50	07...	1230	.0	50
NOV				MAY			
22...	1300	.0	46	02...	1200	8.5	30
DEC				AUG			
09...	1000	.0	--	17...	1330	15.0	40
JAN , 1977							
17...	1500	.0	55				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

KENNEBEC RIVER BASIN.--Continued

01047730 - WILSON STREAM AT EAST WILTON, ME (LAT 44 36 55 LONG 070 11 42)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
DEC , 1976			
08...	1200	.0	65
FEB , 1977			
09...	1430	.0	55
MAR			
10...	1400	.0	112
15...	1300	.0	55
17...	1100	.5	49
22...	1545	1.0	58
APR			
29...	1330	7.0	46
JUN , 1977			
14...	0915	17.0	50
JUL			
20...	1030	24.0	66
AUG			
09...	1200	20.0	76
SEP			
09...	1145	16.0	57
20...	1245	11.0	86

01048000 - SANDY RIVER NEAR MERCER, ME (LAT 44 42 26 LONG 069 56 21)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976			
12...	1230	8.5	55
NOV			
22...	1100	.0	63
DEC			
08...	1500	.0	46
JAN , 1977			
17...	1100	.0	70
MAR , 1977			
11...	1030	.0	60
APR			
29...	1115	6.0	41
JUN			
28...	1000	16.5	42
AUG			
18...	1130	15.0	40

01049000 - SEBASTICOOK RIVER NEAR PITTSFIELD, ME (LAT 44 43 00 LONG 069 24 56)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976			
02...	1245	15.0	122
NOV			
10...	0905	2.0	115
DEC			
21...	1005	.0	120
FEB , 1977			
03...	0950	.0	188
MAR			
02...	1500	.0	157
APR			
07...	0905	.5	76
MAY , 1977			
05...	1020	10.5	76
JUN			
16...	1500	13.0	140
JUL			
06...	1140	19.0	108
AUG			
09...	1455	24.0	90
SEP			
20...	1005	14.0	145

01049300 - NORTH BRANCH TANNING BROOK NEAR MANCHESTER, ME (LAT 44 21 00 LONG 069 51 07)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976			
07...	1000	13.5	101
28...	1045	2.0	84
NOV			
01...	1240	4.5	78
09...	1535	1.5	82
22...	1405	.0	94
DEC			
01...	1420	.0	92
FEB , 1977			
01...	1550	.0	95
MAR			
01...	1520	.5	98
14...	1135	.0	45
APR			
01...	1035	1.5	48
13...	1115	6.0	60
19...	1050	10.0	60
MAY , 1977			
04...	1020	9.0	70
19...	1120	12.0	--
24...	1108	20.0	83
JUN			
20...	1325	15.0	89
JUL			
01...	1150	14.0	89
11...	1015	12.0	99
15...	0850	12.5	110
26...	1100	12.0	108
AUG			
01...	0935	18.0	100
05...	1210	21.5	95
SEP			
14...	1405	13.0	86

01049500 - COBBOSSEECONTEE STREAM AT GARDINER, ME (LAT 44 13 15 LONG 069 47 25.01)

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1976			
07...	1530	16.0	83
28...	0915	4.0	70
NOV			
10...	1405	3.5	94
DEC			
01...	0930	2.0	85
31...	0920	.5	80
FEB , 1977			
01...	1120	.0	95
MAR			
01...	1005	.5	108
15...	1615	.0	80
17...	1545	.0	73
22...	1300	.5	80
APR , 1977			
01...	1400	2.0	82
MAY			
02...	1505	11.0	76
24...	1440	22.0	78
27...	0955	18.0	89
JUL			
01...	1015	18.0	94
15...	1025	19.0	85
AUG			
01...	0900	22.0	70
SEP			
01...	1105	22.0	85

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
ANDROSCOGGIN RIVER BASIN							
01052500 - DIAMOND RIVER NEAR WENTWORTH LOCATION, NH (LAT 44 52 40 LONG 071 03 25)							
OCT , 1976				MAR , 1977			
18...	0730	3.0	41	08...	1215	.0	42
NOV				APR			
24...	1100	.0	38	20...	1545	4.0	23
DEC				JUN			
16...	1100	.0	30	29...	1215	17.0	33
JAN , 1977				SEP			
20...	1215	.0	49	14...	1315	10.0	29
01053500 - ANDROSCOGGIN RIVER AT ERROL, NH (LAT 44 46 57 LONG 071 07 46)							
OCT , 1976				MAR , 1977			
18...	1100	7.0	34	08...	1300	1.0	39
NOV				APR			
24...	1200	.5	35	22...	1730	5.0	25
DEC				JUN			
16...	1300	1.0	0	29...	1400	18.5	30
JAN , 1977				SEP			
20...	1415	.0	39	14...	1515	15.0	30
01054000 - ANDROSCOGGIN RIVER NEAR GORHAM, NH (LAT 44 26 10 LONG 071 11 27)							
OCT , 1976				MAR , 1977			
18...	1245	7.5	61	08...	1430	1.0	109
NOV				MAY			
24...	1415	1.0	108	04...	1445	10.0	110
DEC				JUN			
16...	1445	.5	108	30...	0930	18.0	106
JAN , 1977				AUG			
20...	1600	.5	108	16...	1345	21.0	77
01054300 - ELLIS RIVER AT SOUTH ANDOVER, ME (LAT 44 35 37 LONG 070 44 01)							
OCT , 1976				MAY , 1977			
01...	1200	10.0	35	04...	0945	6.0	30
13...	0930	7.0	33	JUN			
NOV				15...	1430	17.0	33
23...	1130	.5	40	16...	1015	15.0	33
DEC				JUL			
15...	1330	.0	41	20...	1245	23.0	46
JAN , 1977				SEP			
19...	1330	.0	47	15...	1700	11.5	36
MAR							
02...	1200	.0	46				
01055000 - SWIFT RIVER NEAR ROXBURY, ME (LAT 44 38 32 LONG 070 35 17)							
OCT , 1976				MAR , 1977			
21...	1130	10.0	29	10...	1100	.0	39
NOV				APR			
23...	1100	.0	30	22...	1100	4.0	20
DEC				JUN			
15...	1145	.0	34	13...	1215	13.0	22
JAN , 1977				JUL			
19...	1130	.0	33	20...	1400	26.0	32
01055500 - NEZINSCOT RIVER AT TURNER CENTER, ME (LAT 44 16 10 LONG 070 13 49)							
OCT , 1976				MAY , 1977			
13...	1420	11.5	50	02...	1310	10.0	54
NOV				27...	1250	20.0	66
09...	1415	2.5	51	JUN			
DEC				30...	1400	15.5	56
01...	1045	.0	70	JUL			
30...	1530	.0	70	08...	1020	19.0	75
FEB , 1977				AUG			
01...	1410	.0	78	01...	1100	21.5	75
MAR				SEP			
01...	1225	.0	83	01...	1520	22.0	85
APR							
04...	0905	2.0	40				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ANDROSCOGGIN RIVER BASIN.--Continued

01057000 - LITTLE ANDROSCOGGIN RIVER NEAR SOUTH PARIS, ME (LAT 44 17 08 LONG 070 32 16)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976				MAR , 1977			
12...	1000	.0	49	31...	1230	2.0	30
DEC				JUN			
17...	1100	.0	53	17...	1100	17.0	44
JAN , 1977				JUL			
18...	1130	.0	55	21...	1130	24.0	55
MAR							
02...	1345	.0	56				

01058000 - THOMPSON LAKE AT OXFORD, ME (LAT 44 07 55 LONG 070 29 45)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976				MAY , 1977			
12...	1130	2.5	40	17...	1300	13.5	55
DEC				JUN			
09...	1400	17.5	111	10...	1515	14.0	--
17...	1200	2.0	65	JUL			
JAN , 1977				21...	1430	28.5	150
18...	1115	1.0	65	AUG			
MAR				10...	1600	18.5	--
02...	1430	1.0	65				
31...	1045	4.0	63				

01058500 - LITTLE ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 03 49 LONG 070 16 28)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT , 1976				MAR , 1977			
13...	1245	11.5	64	01...	1305	.5	138
NOV				MAY			
09...	1300	3.0	61	04...	1515	11.0	80
DEC				JUL			
23...	0950	.0	68	26...	1420	16.0	148
FEB , 1977				SEP			
02...	1500	.0	70	06...	1200	20.0	130

01059000 - ANDROSCOGGIN RIVER NEAR AUBURN, ME (LAT 44 04 20 LONG 070 12 31)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT , 1976				APR , 1977			
13...	1100	12.5	78	07...	1105	3.0	58
NOV				MAY			
09...	1120	3.0	65	04...	1405	11.0	78
DEC				JUN			
22...	1530	.0	70	15...	1510	15.0	140
FEB , 1977				16...	1610	19.0	98
02...	1515	.0	65	JUL			
MAR				26...	1355	18.0	165
01...	1335	.5	168	SEP			
17...	1300	.5	106	06...	1115	20.5	148

01059160 - SABATTUS RIVER NEAR LISBON CENTER, ME (LAT 44 01 13 LONG 070 05 27)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV , 1976				MAY , 1977			
12...	1300	2.0	112	11...	1400	7.5	102
DEC				JUN			
06...	1330	.5	112	09...	1400	14.0	110
MAR , 1977				AUG			
31...	1400	3.0	107	10...	1130	22.0	--
APR				SEP			
01...	1200	3.0	106	12...	1645	17.0	111
MAY							
05...	0945	12.0	93				

ROYAL RIVER BASIN

01059800 - COLLYER BROOK NEAR GRAY, ME (LAT 43 55 03 LONG 070 19 02)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT , 1976				APR , 1977			
18...	1210	7.0	118	04...	1035	1.5	71
NOV				07...	1120	2.0	80
11...	0905	1.0	132	MAY			
DEC				11...	0950	5.0	96
22...	1415	.0	110	JUN			
JAN , 1977				09...	1500	12.0	112
03...	1410	.0	108	14...	1005	6.0	139
FEB				AUG			
02...	1250	.0	120	02...	1520	18.0	139
MAR				15...	1345	14.0	139
02...	1110	.5	160	25...	1525	14.0	130
29...	1305	.0	90				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)

ROYAL RIVER BASIN.--Continued

01060000 - ROYAL RIVER AT YARMOUTH, ME (LAT 43 47 57 LONG 070 10 45)

OCT , 1976 18...	1020	11.0	119	MAR , 1977 29...	1110	1.5	64
DEC 22...	1120	.0	115	MAY 11...	1605	7.0	69
FEB , 1977 02...	1035	.0	122	AUG 08...	1125	22.0	129
MAR 02...	0905	.0	95				

PRESUMPSCOT RIVER BASIN

01063100 - CROOKED RIVER NEAR NAPLES, ME (LAT 43 58 44 LONG 070 33 50)

OCT , 1976 12...	1415	10.5	42	MAY , 1977 11...	1115	7.5	37
NOV 11...	1530	1.0	40	JUN 10...	1330	9.5	--
30...	1400	1.0	45	AUG 10...	1515	18.0	--
MAR , 1977 31...	1345	2.5	29	SEP 12...	1445	17.0	50
APR 28...	1330	8.0	30				

FORE RIVER BASIN

01064158 - STROUDWATER RIVER AT SOUTH PORTLAND, ME (LAT 43 39 26 LONG 070 18 52)

OCT , 1976 15...	0915	10.5	143	MAY , 1977 16...	1500	12.5	120
NOV 10...	1230	.0	118	JUN 09...	1015	14.5	150
DEC 06...	1430	1.0	117	20...	1430	18.5	140
MAR , 1977 15...	1100	.0	56	JUL 22...	1045	20.0	135
APR 19...	1130	10.5	95				

SACO RIVER BASIN

01064500 - SACO RIVER NEAR CONWAY, NH (LAT 43 59 27 LONG 071 05 29)

OCT , 1976 12...	1145	9.0	35	MAR , 1977 09...	1600	.0	50
DEC 17...	1545	.0	40	APR 21...	1430	9.0	35
JAN , 1977 21...	1215	.0	53				

01065500 - OSSIPEE RIVER AT CORNISH, ME (LAT 43 48 26 LONG 070 47 55)

OCT , 1976 11...	1245	13.5	40	MAR , 1977 09...	1100	.0	49
NOV 11...	0945	3.5	38	MAY 05...	1200	13.0	31
DEC 21...	1330	.0	33	SEP 08...	1430	22.0	40
JAN , 1977 26...	1230	.0	67				

01066500 - LITTLE OSSIPEE RIVER NEAR SOUTH LIMINGTON, ME (LAT 43 41 22 LONG 070 40 15)

OCT , 1976 11...	1045	14.0	49	MAR , 1977 01...	1115	.0	59
NOV 10...	1615	3.0	50	APR 19...	1600	13.0	38
DEC 21...	1500	.0	60	JUN 23...	1030	16.0	45
JAN , 1977 26...	1445	.0	47	SEP 08...	1230	19.0	50

MOUSAM RIVER BASIN

01069500 - MOUSAM RIVER NEAR WEST KENNEBUNK, ME (LAT 43 25 04 LONG 070 39 32)

OCT , 1976 15...	1245	14.5	89	MAR , 1977 01...	1220	.5	113
NOV 09...	1430	1.0	90	APR 19...	1330	11.0	63
DEC 21...	1600	1.5	102	JUN 22...	1745	18.0	80
JAN , 1977 26...	1545	1.0	110	SEP 08...	1100	20.0	110

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMP-LING DEPTH (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)
ANDROSCOGGIN RIVER BASIN												
01057200 - LITTLE ANDROSCOGGIN R ABOVE DUMP NEAR PARIS, ME (LAT 44 14 56 LONG 070 31 00)												
FEB , 1977												
10...	1400	--	--	58	6.6	3.0	.0	--	14.2	135	86	11
APR												
19...	1230	--	--	35	6.6	16.0	8.0	--	12.5	81	81	9
JUL												
12...	1400	--	17	57	6.8	--	18.0	--	9.1	36	41	16
01057220 - LITTLE ANDROSCOGGIN R BELOW DUMP AT S PARIS, ME (LAT 44 14 01 LONG 070 30 54)												
FEB , 1977												
10...	1530	--	--	65	6.6	2.0	.0	--	13.5	83	84	14
APR												
19...	1115	--	--	35	6.6	15.5	8.0	--	12.0	81	81	15
JUL												
12...	1200	--	17	65	6.6	22.0	19.0	--	7.3	65	24	17
01058050 - WINTER BROOK AT PROMISED LAND, ME (LAT 44 04 56 LONG 070 26 10)												
FEB , 1977												
10...	1230	--	8.3	80	6.5	6.0	.5	--	11.8	0	81	16
APR												
19...	1415	--	30	53	6.2	19.0	12.0	--	10.8	81	82	11
JUL												
11...	1630	--	--	90	6.0	15.0	19.0	--	6.0	820	160	18
01058055 - HOGAN POND AT WELCHVILLE, ME (LAT 44 07 17 LONG 070 28 25)												
FEB , 1977												
11...	1200	3.3	--	73	6.6	--	2.5	3.2	10.2	--	--	16
11...	1205	13	--	69	6.5	--	3.9	--	8.1	--	--	15
11...	1210	30	--	68	6.4	--	4.4	--	4.3	--	--	13
APR												
20...	1215	3.3	--	48	6.2	--	8.0	--	9.8	--	--	12
20...	1230	19	--	50	6.2	--	4.5	--	8.6	--	--	11
20...	1245	39	--	52	6.2	--	4.5	--	8.0	--	--	11
JUL												
11...	1345	3.3	--	56	7.0	--	21.5	--	8.6	--	--	14
11...	1445	9.8	--	55	6.9	--	21.0	--	8.1	--	--	14
11...	1500	19	--	53	5.8	--	13.5	--	2.9	--	--	13
11...	1515	32	--	53	5.8	--	10.0	--	.5	--	--	12
01058655 - LAPHAM BROOK AT WEST AUBURN, ME (LAT 44 08 57 LONG 070 17 08)												
FEB , 1977												
10...	1100	--	2.2	--	--	--	--	--	--	--	--	--
01058660 - LAPHAM BROOK AT YOUNG CORNER, ME (LAT 44 07 40 LONG 070 16 38)												
FEB , 1977												
10...	1000	--	2.6	95	6.9	2.0	.5	--	13.9	0	81	--
APR												
20...	1615	--	14	55	6.8	15.0	12.5	--	11.0	81	82	--
JUL												
07...	1445	--	--	80	6.7	26.0	19.0	--	6.8	54	92	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ANDROSCOGGIN RIVER BASIN--Continued

01058680 - HODGKINS BROOK NEAR AUBURN, ME (LAT 44 06 36 LONG 070 17 50)

DATE	TIME	SAMPLING DEPTH (FT)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)
FEB , 1977												
10...	1115	--	.20	75	6.8	6.0	.5	--	13.8	0	B2	--
APR												
20...	1730	--	2.4	50	6.8	12.0	8.0	--	11.4	B1	B2	--
JUL												
07...	1600	--	--	--	6.6	26.0	18.0	--	4.2	180	B550	--

01058700 - TAYLOR BROOK AT STEVENS MILL, ME (LAT 44 05 58 LONG 070 16 02)

DATE	TIME	SAMPLING DEPTH (FT)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)
FEB , 1977												
10...	0900	--	10	75	6.8	-1.0	1.0	--	12.7	210	410	--
APR												
20...	1530	--	46	60	6.6	17.0	9.5	--	10.0	B14	24	--
JUL												
07...	1000	--	--	57	6.9	28.0	21.0	--	7.4	B275	B60000	--

01057200 - LITTLE ANDROSCOGGIN R ABOVE DUMP NEAR PARIS, ME (LAT 44 14 56 LONG 070 31 00)

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977												
10...	0	4.2	.2	3.1	.6	17	0	14	6.8	4.5	5.0	.1
APR												
19...	2	3.1	.4	2.1	.5	9	0	7	3.6	4.9	2.7	.0
JUL												
12...	2	5.3	.7	4.0	.9	17	0	14	4.3	6.1	5.0	.0

01057220 - LITTLE ANDROSCOGGIN R BELOW DUMP AT S PARIS, ME (LAT 44 14 01 LONG 070 30 54)

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977												
10...	1	4.5	.6	4.4	.7	16	0	13	6.4	5.0	5.8	.1
APR												
19...	12	3.2	1.8	2.4	.5	4	0	3	1.6	5.0	3.0	.0
JUL												
12...	4	5.4	.8	5.1	1.0	15	0	12	6.0	5.6	6.7	.0

01058050 - WINTER BROOK AT PROMISED LAND, ME (LAT 44 04 56 LONG 070 26 10)

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977												
10...	3	5.0	.8	5.9	.6	16	0	13	8.1	4.0	11	.1
APR												
19...	4	3.6	.4	4.4	.7	8	0	7	8.1	5.2	7.0	.0
JUL												
11...	7	5.6	.9	7.7	.7	13	0	11	21	4.3	14	.0

01058055 - HOGAN POND AT WELCHVILLE, ME (LAT 44 07 17 LONG 070 28 25)

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977												
11...	2	4.9	.8	4.7	.7	16	0	13	6.4	4.4	8.4	.1
11...	2	5.2	.6	4.5	.7	17	0	14	8.6	4.8	8.1	.1
11...	0	4.2	.7	4.3	.6	17	0	14	11	4.8	7.7	.1
APR												
20...	4	3.8	.6	3.7	.6	10	0	8	10	4.2	5.6	.0
20...	1	3.7	.5	3.4	.5	12	0	10	12	4.1	5.4	.0
20...	3	3.6	.5	3.4	.5	10	0	8	10	4.0	5.5	.0
JUL												
11...	2	4.4	.7	4.6	.7	14	0	11	2.2	4.8	6.7	.1
11...	3	4.5	.7	4.7	.6	14	0	11	2.8	4.5	6.4	.0
11...	3	4.1	.6	4.0	.6	12	0	10	30	4.8	5.7	.0
11...	2	3.9	.6	3.7	.6	12	0	10	30	5.2	5.2	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ANDROSCOGGIN RIVER BASIN--Continued

01058655 - LAPHAM BROOK AT WEST AUBURN, ME (LAT 44 08 57 LONG 070 17 08)

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977 10...	--	--	--	--	--	--	--	--	--	--	--	--

01058660 - LAPHAM BROOK AT YOUNG CORNER, ME (LAT 44 07 40 LONG 070 16 38)

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977 10...	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--

01058680 - HODGKINS BROOK NEAR AUBURN, ME (LAT 44 06 36 LONG 070 17 50)

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977 10...	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--

01058700 - TAYLOR BROOK AT STEVENS MILL, ME (LAT 44 05 58 LONG 070 16 02)

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
FEB , 1977 10...	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--

01057200 - LITTLE ANDROSCOGGIN R ABOVE DUMP NEAR PARIS, ME (LAT 44 14 56 LONG 070 31 00)

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB , 1977 10...	8.4	35	--	.17	.75	--	.01	.03	--	.18	--	--
APR 19...	3.8	22	--	.06	.27	--	.00	.00	--	.06	--	--
JUL 12...	6.3	37	--	.12	.53	--	.00	.00	--	.12	--	--

01057220 - LITTLE ANDROSCOGGIN R BELOW DUMP AT S PARIS, ME (LAT 44 14 01 LONG 070 30 54)

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB , 1977 10...	8.4	38	--	.18	.80	--	.01	.03	--	.19	--	--
APR 19...	4.8	23	--	.06	.27	--	.00	.00	--	.06	--	--
JUL 12...	6.3	39	--	.12	.53	--	.00	.00	--	.12	--	--

01058050 - WINTER BROOK AT PROMISED LAND, ME (LAT 44 04 56 LONG 070 26 10)

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB , 1977 10...	3.2	39	--	.05	.22	--	.01	.03	--	.06	--	--
APR 19...	2.2	28	--	.06	.27	--	.00	.00	--	.06	--	--
JUL 11...	2.7	42	--	.04	.18	--	.00	.00	--	.04	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
ANDROSCOGGIN RIVER BASIN--Continued												
01058055 - HOGAN POND AT WELCHVILLE, ME (LAT 44 07 17 LONG 070 28 25)												
FEB , 1977												
11...	5.0	45	--	1.8	7.9	--	.01	.03	--	1.8	--	--
11...	5.1	38	--	.25	1.1	--	.01	.03	--	.26	--	--
11...	5.2	37	--	.31	1.4	--	.01	.03	--	.32	--	--
APR												
20...	4.0	28	--	.07	.31	--	.00	.00	--	.07	--	--
20...	3.9	28	--	.08	.35	--	.00	.00	--	.08	--	--
20...	3.6	26	--	.05	.22	--	.00	.00	--	.05	--	--
JUL												
11...	2.3	31	--	.03	.13	--	.00	.00	--	.03	--	--
11...	2.3	31	--	.07	.31	--	.00	.00	--	.07	--	--
11...	3.8	30	--	.05	.22	--	.00	.00	--	.05	--	--
11...	4.8	31	--	.15	.66	--	.00	.00	--	.15	--	--
01058655 - LAPHAM BROOK AT WEST AUBURN, ME (LAT 44 08 57 LONG 070 17 08)												
FEB , 1977												
10...	--	--	--	--	--	--	--	--	--	--	--	--
01058660 - LAPHAM BROOK AT YOUNG CORNER, ME (LAT 44 07 40 LONG 070 16 38)												
FEB , 1977												
10...	--	--	.14	--	--	.01	--	--	.15	--	.11	.62
APR												
20...	--	--	.03	--	--	.00	--	--	.03	--	.02	.22
JUL												
07...	--	--	.08	--	--	.00	--	--	.08	--	.07	.11
01058680 - HODGKINS BROOK NEAR AUBURN, ME (LAT 44 06 36 LONG 070 17 50)												
FEB , 1977												
10...	--	--	.16	--	--	.01	--	--	.17	--	.04	.73
APR												
20...	--	--	.03	--	--	.00	--	--	.03	--	.00	.22
JUL												
07...	--	--	.09	--	--	.01	--	--	.10	--	.14	.50
01058700 - TAYLOR BROOK AT STEVENS MILL, ME (LAT 44 05 58 LONG 070 16 02)												
FEB , 1977												
10...	--	--	.04	--	--	.01	--	--	.05	--	.05	2.6
APR												
20...	--	--	.07	--	--	.00	--	--	.07	--	.01	.29
JUL												
07...	--	--	.01	--	--	.00	--	--	.01	--	.04	.84

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)
ANDROSCOGGIN RIVER BASIN--Continued												
01057200 - LITTLE ANDROSCOGGIN R ABOVE DUMP NEAR PARIS, ME (LAT 44 14 56 LONG 070 31 00)												
FEB , 1977												
10...	--	--	40	.01	--	180	0	2	0	0	<10	4
APR												
19...	--	--	220	--	--	350	0	1	0	<1	<10	4
JUL												
12...	--	--	490	--	--	280	2	1	2	<10	<10	<10
01057220 - LITTLE ANDROSCOGGIN R BELOW DUMP AT S PARIS, ME (LAT 44 14 01 LONG 070 30 54)												
FEB , 1977												
10...	--	--	60	.01	--	160	0	1	0	0	<10	3
APR												
19...	--	--	260	--	--	140	0	0	0	<1	<10	0
JUL												
12...	--	--	460	--	--	210	2	1	0	<10	<10	<10
01058050 - WINTER BROOK AT PROMISED LAND, ME (LAT 44 04 56 LONG 070 26 10)												
FEB , 1977												
10...	--	--	--	.01	--	--	0	--	0	--	<10	--
APR												
19...	--	--	--	--	--	--	0	--	0	--	<10	--
JUL												
11...	--	--	--	--	--	--	1	--	0	--	20	--
01058055 - HOGAN POND AT WELCHVILLE, ME (LAT 44 07 17 LONG 070 28 25)												
FEB , 1977												
11...	--	--	--	.01	--	--	0	--	0	--	10	--
11...	--	--	--	.01	--	--	0	--	0	--	10	--
11...	--	--	--	.01	--	--	0	--	0	--	10	--
APR												
20...	--	--	--	--	--	--	0	--	0	--	<10	--
20...	--	--	--	--	--	--	0	--	0	--	<10	--
20...	--	--	--	--	--	--	0	--	0	--	<10	--
JUL												
11...	--	--	--	--	--	--	2	--	2	--	10	--
11...	--	--	--	--	--	--	2	--	0	--	<10	--
11...	--	--	--	--	--	--	2	--	0	--	<10	--
11...	--	--	--	--	--	--	2	--	0	--	<10	--
01058655 - LAPHAM BROOK AT WEST AUBURN, ME (LAT 44 08 57 LONG 070 17 08)												
FEB , 1977												
10...	--	--	--	--	--	--	--	--	--	--	--	--
01058660 - LAPHAM BROOK AT YOUNG CORNER, ME (LAT 44 07 40 LONG 070 16 38)												
FEB , 1977												
10...	.77	3.4	--	.02	.00	--	--	--	--	--	--	--
APR												
20...	.25	1.1	--	.01	.00	--	--	--	--	--	--	--
JUL												
07...	.19	.84	--	.00	.00	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/C)
ANDROSCOGGIN RIVER BASIN--Continued												
01058680 - HODGKINS BROOK NEAR AUBURN, ME (LAT 44 06 36 LONG 070 17 50)												
FEB , 1977												
10...	.90	4.0	--	.02	.00	--	--	--	--	--	--	--
APR												
20...	.25	1.1	--	.01	.00	--	--	--	--	--	--	--
JUL												
07...	.60	2.7	--	.02	.00	--	--	--	--	--	--	--
01058700 - TAYLOR BROOK AT STEVENS MILL, ME (LAT 44 05 58 LONG 070 16 02)												
FEB , 1977												
10...	2.7	12	--	.02	.01	--	--	--	--	--	--	--
APR												
20...	.36	1.6	--	.01	.00	--	--	--	--	--	--	--
JUL												
07...	.85	3.8	--	.00	.00	--	--	--	--	--	--	--

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
01057200 - LITTLE ANDROSCOGGIN R ABOVE DUMP NEAR PARIS, ME (LAT 44 14 56 LONG 070 31 00)											
FEB , 1977											
10...	0	5	10	3	140	5000	4	4	0	130	<.5
APR											
19...	0	<5	0	20	210	4500	0	<10	10	88	.0
JUL											
12...	0	<10	2	<10	800	400	26	<10	30	50	.0
01057220 - LITTLE ANDROSCOGGIN R BELOW DUMP AT S PARIS, ME (LAT 44 14 01 LONG 070 30 54)											
FEB , 1977											
10...	0	7	0	3	140	5700	5	7	0	71	<.5
APR											
19...	0	<5	0	<1	190	710	11	<10	10	470	.0
JUL											
12...	0	<10	0	<10	800	480	10	<10	10	20	.0
01058050 - WINTER BROOK AT PROMISED LAND, ME (LAT 44 04 56 LONG 070 26 10)											
FEB , 1977											
10...	0	--	0	--	140	--	2	--	0	--	<.5
APR											
19...	0	--	0	--	220	--	2	--	0	--	.0
JUL											
11...	0	--	0	--	230	--	8	--	10	--	.0
01058055 - HOGAN POND AT WELCHVILLE, ME (LAT 44 07 17 LONG 070 28 25)											
FEB , 1977											
11...	0	--	0	--	190	--	3	--	10	--	<.5
11...	2	--	0	--	220	--	1	--	20	--	<.5
11...	1	--	0	--	400	--	2	--	50	--	<.5
APR											
20...	0	--	0	--	390	--	2	--	30	--	.0
20...	0	--	0	--	600	--	2	--	20	--	.0
20...	0	--	0	--	180	--	0	--	10	--	.0
JUL											
11...	0	--	0	--	90	--	6	--	0	--	.0
11...	0	--	0	--	120	--	6	--	10	--	.0
11...	0	--	0	--	170	--	7	--	40	--	.0
11...	0	--	0	--	1500	--	10	--	130	--	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ANDROSCOGGIN RIVER BASIN--Continued

01058050 - WINTER BROOK AT PROMISED LAND, ME (LAT 44 04 56 LONG 070 26 10)

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB , 1977								
10...	--	--	1	10	--	--	--	--
APR								
19...	--	--	0	10	--	--	--	--
JUL								
11...	--	--	0	20	--	--	--	--

01058055 - HOGAN POND AT WELCHVILLE, ME (LAT 44 07 17 LONG 070 28 25)

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB , 1977								
11...	--	--	0	10	--	--	--	--
11...	--	--	0	10	--	--	--	--
11...	--	--	0	80	--	--	--	--
APR								
20...	--	--	0	10	--	--	--	--
20...	--	--	0	10	--	--	--	--
20...	--	--	0	10	--	--	--	--
JUL								
11...	--	--	0	70	--	--	--	--
11...	--	--	0	20	--	--	--	--
11...	--	--	0	20	--	--	--	--
11...	--	--	0	10	--	--	--	--

01058655 - LAPHAM BROOK AT WEST AUBURN, ME (LAT 44 08 57 LONG 070 17 08)

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB , 1977								
10...	--	--	--	--	--	--	2	.01
APR								
20...	--	--	--	--	--	--	13	--
MAY								
10...	--	--	--	--	--	--	15	--
JUL								
07...	--	--	--	--	--	--	6	--

01058660 - LAPHAM BROOK AT YOUNG CORNER, ME (LAT 44 07 40 LONG 070 16 38)

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB , 1977								
10...	--	--	--	--	--	--	8	.06
APR								
20...	--	--	--	--	--	--	21	.79
MAY								
10...	--	--	--	--	--	--	23	--
JUL								
07...	--	--	--	--	--	--	4	--

01058680 - HODGKINS BROOK NEAR AUBURN, ME (LAT 44 06 36 LONG 070 17 50)

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB , 1977								
10...	--	--	--	--	--	--	1	.00
APR								
20...	--	--	--	--	--	--	1	.01
JUL								
07...	--	--	--	--	--	--	10	--

01058700 - TAYLOR BROOK AT STEVENS MILL, ME (LAT 44 05 58 LONG 070 16 02)

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
FEB , 1977								
10...	--	--	--	--	--	--	1	.03
APR								
20...	--	--	--	--	--	--	1	.13
JUL								
07...	--	--	--	--	--	--	6	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ANDROSCOGGIN RIVER BASIN--Continued

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
01058655 - LAPHAM BROOK AT WEST AUBURN, ME (LAT 44 08 57 LONG 070 17 08)											
FEB , 1977											
10...	--	--	--	--	--	--	--	--	--	--	--
01058660 - LAPHAM BROOK AT YOUNG CORNER, ME (LAT 44 07 40 LONG 070 16 38)											
FEB , 1977											
10...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
01058680 - HODGKINS BROOK NEAR AUBURN, ME (LAT 44 06 36 LONG 070 17 50)											
FEB , 1977											
10...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
01058700 - TAYLOR BROOK AT STEVENS MILL, ME (LAT 44 05 58 LONG 070 16 02)											
FEB , 1977											
10...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
01057200 - LITTLE ANDROSCOGGIN R ABOVE DUMP NEAR PARIS, ME (LAT 44 14 56 LONG 070 31 00)								
FEB , 1977								
10...	<10	10	0	10	20	.9	--	--
APR								
19...	.0	5	0	10	140	.3	--	--
JUL								
12...	.0	<10	0	30	<10	.4	--	--
01057220 - LITTLE ANDROSCOGGIN R BELOW DUMP AT S PARIS, ME (LAT 44 14 01 LONG 070 30 54)								
FEB , 1977								
10...	<10	20	0	10	30	.4	--	--
APR								
19...	.0	5	0	10	5	.4	--	--
JUL								
12...	.0	<10	0	10	<10	1.4	--	--

ANDROSCOGGIN COUNTY

440438070261601. Local number, An 986.
LOCATION.--Lat 44°04'38", long 70°26'16", Hydrologic Unit 01040002, in gravel pit west of Winter Brook, 1.0 mi (1.6 km) west of intersection of State Highways 11 and 26, Poland.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 45 ft (13.7 m), screened 42 to 45 ft (12.8 to 13.7 m).
DATUM.--Altitude of land-surface datum is 310 ft (94 m). Measuring point: Top of casing at land-surface datum.
REMARKS.--Water-quality records for the current year are published elsewhere in this report.
PERIOD OF RECORD.--June 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.76 ft (1.45 m) below land-surface datum, Apr. 12, 1977; lowest measured, 7.73 ft (2.36 m) below land-surface datum, Sept. 19, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 26	7.14	DEC 30	7.10	MAR 31	4.91	JUN 24	6.67	AUG 31	7.37		
DEC 16	7.06	FEB 02	7.02	APR 12	4.76	JUL 06	6.87	SEP 12	7.50		
DEC 22	7.12	FEB 24	7.00	JUN 10	6.44	JUL 26	6.80	SEP 19	7.73		

440730070035304. Local number, An 988C.
LOCATION.--Lat 44°07'30", long 70°03'53", Hydrologic Unit 01040002, on Old Bowdoin Road, 0.6 mi (1.0 km) east of State Highway 126, in Sabattus.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Driven observation artesian well, diameter 1.5 in (0.04 m), depth 45 ft (13.7 m), screened 40 to 45 ft (12.2 to 13.7 m).
DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of pipe at land-surface datum.
REMARKS.--Water-quality records for nearby well 440730070035302 are published elsewhere in this report.
PERIOD OF RECORD.--October 1976 to September 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft (1.22 m) below land-surface datum, Apr. 12, 1977; lowest measured, 5.48 ft (1.67 m) below land-surface datum, Sept. 21, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	4.64	NOV 02	4.56	APR 12	4.00	JUN 08	4.66	JUL 26	4.94		
NOV 01	4.55	26	4.78	MAY 16	4.57	JUL 06	4.85	SEP 21	5.48		

AROOSTOOK COUNTY

464619068280401. Local number, Ar 1.
LOCATION.--Lat 46°46'19", long 68°28'04", Hydrologic Unit 01010003, on State Highway 11, 1.1 mi (1.8 km) north of village of Portage Lake.
Owner: H. L. Stevens.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug and driven observation water-table well, diameter 1.5 in (0.04 m), filled to a depth of 8 ft (2.4 m), formerly 11 ft (3.4 m), screened 8 to 11 ft (2.4 to 3.4 m).
DATUM.--Altitude of land-surface datum is 930 ft (283 m). Measuring point: Top of pipe, 2.0 ft (0.61 m) above land-surface datum.
REMARKS.--Water-quality records are available in files of the Geological Survey.
PERIOD OF RECORD.--November 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflowed, Dec. 21, 1957 and Apr. 28, 1975; lowest estimated, 14.0 ft (4.3 m) Nov. 30, 1955. Has been dry frequently.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	0.30	DEC 14	5.08	FEB 12	F	APR 13	2.00	JUN 13	4.65	AUG 12	3.58
NOV 15	2.90	DEC 29	6.95	FEB 25	F	APR 26	1.10	JUN 28	2.12	AUG 30	3.98
NOV 19	3.71	JAN 14	F	MAR 14	3.15	MAY 13	1.25	JUL 15	4.50	SEP 14	5.55
NOV 30	5.35	JAN 27	F	MAR 28	2.30	MAY 26	3.55	JUL 30	6.32	SEP 29	4.02

F - Well is dry

455611068194601. Local number, Ar 2.
LOCATION.--Lat 45°56'11", long 68°19'46", Hydrologic Unit 01020003, on U.S. Highway 2, 0.75 mi (1.2 km) southwest of Crystal town line, in Sherman.
Owner: Donald McKellar IV.
AQUIFER.--Till of late Pleistocene age and bedrock of Silurian age.
WELL CHARACTERISTICS.--Dug and drilled observation water-table well, diameter 28 in (0.71 m) top 12 ft (3.6 m), 8 in (0.20 m) below 12 ft (3.6 m); depth 31 ft (9.4 m), open end.
DATUM.--Altitude of land-surface datum is 730 ft (222 m). Measuring point: Top of cover at land-surface datum.
PERIOD OF RECORD.--July 1939 to September 1966; July 1968 to October 1970; November 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, overflows nearly every spring; lowest measured, 17.48 ft (5.33 m) below land-surface datum, Oct. 25, 1953.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	11.92	NOV 27	10.00	JAN 22	M	MAR 20	1.55	MAY 30	9.72	JUL 25	10.98
OCT 12	1.10	DEC 04	8.16	FEB 12	12.13	APR 03	Q	JUN 11	5.42	AUG 06	11.14
OCT 23	Q	DEC 19	10.93	FEB 27	12.39	APR 23	Q	JUN 26	3.94	AUG 21	12.18
NOV 06	Q	JAN 08	10.26	MAR 04	11.98	MAY 07	4.45	JUL 03	2.18	SEP 24	11.46

M - Frozen

Q - Overflowing

460855067552201. Local number, Ar 887.
LOCATION.--Lat 46°08'55", long 67°55'22", Hydrologic Unit 01010005, on Ludlow Road, 0.2 mi (0.3 km) east of intersection of Hemore Road, in Ludlow.
Owner: Charles Marshall.
AQUIFER.--Glacial till of late Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 20 in (0.51 m), depth 12.5 ft (3.8 m), cased with rock to 12.5 ft (3.8 m), open end.
DATUM.--Altitude of land-surface datum is 675 ft (206 m). Measuring point: Top of concrete curb at land-surface datum.
PERIOD OF RECORD.--November 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft (0.40 m) below land-surface datum, May 26, 1976; lowest measured, 6.95 ft (2.12 m) below land-surface datum, July 25, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	3.60	NOV 28	5.20	FEB 15	3.50	APR 13	2.30	JUN 24	2.50	SEP 14	6.12
OCT 25	3.50	DEC 27	5.70	FEB 28	3.00	APR 25	2.54	JUL 14	5.69	SEP 22	5.96
NOV 15	4.40	JAN 15	4.40	MAR 15	2.70	MAY 14	2.64	JUL 25	6.95		
NOV 19	4.98	JAN 25	5.00	MAR 24	1.70	MAY 24	4.30	AUG 15	6.57		

471457068353001. Local number, Ar 890.
LOCATION.--Lat 47°14'57", long 68°35'30", Hydrologic Unit 01010003, at southwest edge of athletic field of University of Maine at Fort Kent, west of Pleasant Street, Fort Kent.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 50 ft (15.2 m), open end.
DATUM.--Altitude of land-surface datum is 530 ft (162 m). Measuring point: Floor of recorder shelter at land-surface datum.
PERIOD OF RECORD.--November 1976 to September 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.32 ft (1.01 m) below land-surface datum, May 10, 1977; lowest, 13.62 ft (4.15 m) below land-surface datum, Mar. 15, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	13.42	12.78	3.42	6.86	8.08	10.88	12.06
10	---	---	---	---	---	13.60	11.07	3.32	7.17	8.74	11.10	12.33
15	---	---	7.25H	---	---	13.62	10.29	3.87	7.47	9.36	11.35	12.46
20	---	4.90H	---	---	---	13.36	7.95	4.46	7.65	9.52H	11.58	12.46
25	---	---	---	---	13.04	13.17	3.99	5.09	7.45	10.09	11.56	12.67
EOM	---	---	---	---	13.60	13.06	3.48	5.80	7.62	10.67	11.18	12.71

H - Tape measurement

CUMBERLAND COUNTY

435453070013601. Local number, C 26.
LOCATION.--Lat 43°54'53", long 70°01'36", Hydrologic Unit 01060001, north of Durham Road, 0.7 mi (1.1 km) west of U.S. Highway 1, Brunswick.
Owner: Brunswick and Topsham Water District.
AQUIFER.--Stratified sand and gravel deposits of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 101 ft (30.8 m), screened 81 to 101 ft (24.7 to 30.8 m).
DATUM.--Altitude of land-surface datum is 139 ft (42.3 m). Measuring point: Base of water-level recorder at land-surface datum.
PERIOD OF RECORD.--April 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.79 ft (8.47 m) below land-surface datum, July 5, 1974; lowest, 36.41 ft (11.10 m) below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	28.63H	28.96I	29.25I	29.49I	29.46I	27.92I	27.94H	28.13I	28.37I	28.63I	---
10	---	28.57I	28.90I	29.15I	29.62I	29.33I	27.94I	27.97I	28.12I	28.44I	28.79I	---
15	28.32I	28.65I	28.92I	29.29I	29.64I	28.91I	27.90I	27.96I	28.18I	28.46I	28.89I	29.34H
20	---	28.62I	29.01I	29.37I	29.61I	29.61I	27.97I	28.04I	28.27I	28.49I	28.94I	29.39I
25	---	28.78I	29.00I	29.36I	29.58I	29.44I	27.91I	28.01I	28.30I	---	---	29.46I
EOM	---	28.88I	29.13I	29.46I	29.53H	28.18H	27.92I	28.11I	28.32I	28.64I	---	29.36I

H - Tape measurement

I - Affected by atmospheric pressure

HANCOCK COUNTY

444950068220601. Local number, H 1.
LOCATION.--Lat 44°49'50", long 68°22'06", Hydrologic Unit 01050002, on State Highway 9, 0.25 mi (0.4 km) west of intersection with State Highway 181 in Amherst.
Owner: Norman Salisbury.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 18 in (0.46 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.
DATUM.--Altitude of land-surface datum is 330 ft (101 m). Measuring point: Nail in top of vertical timber at land-surface datum.
PERIOD OF RECORD.--November 1943 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft (0.64 m) below land-surface datum, May 29, 1961; lowest estimated, 17.8 ft (5.4 m) below land-surface datum, Sept. 30, 1965. Well goes dry frequently.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	7.40	DEC 12	M	FEB 04	7.30	MAR 27	4.40	MAY 27	6.20	AUG 22	6.00
OCT 27	5.80	JAN 02	M	FEB 11	8.40	APR 13	4.40	JUN 12	5.30	AUG 28	9.80
NOV 12	4.10	JAN 13	M	FEB 24	8.40	APR 29	5.20	JUN 28	5.20	SEP 11	11.70
NOV 27	6.70	JAN 27	M	MAR 11	6.00	MAY 15	6.00	JUL 13	6.50	SEP 28	9.50

M - Well frozen

KENNEBEC COUNTY

441849069442001. Local number, K 52.
LOCATION.--Lat 44°18'49", long 69°44'20", Hydrologic Unit 01030003, on Cony Road, 0.3 mi (0.5 km) south of State Highway 105, in Augusta.
Owner: Walter Panek.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 22 ft (6.7 m), cased with rock to 22 ft (6.7 m), open end.
DATUM.--Altitude of land-surface datum is 220 ft (67 m). Measuring point: Top of floor of shelter house at land-surface datum.
REMARKS.--Water-quality records for the current year are published elsewhere in this report. Records for 1968 and 1974 are available in files of the Geological Survey.
PERIOD OF RECORD.--December 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.42 ft (1.04 m) below land-surface datum, Mar. 28, 1975; lowest, 14.29 ft (4.36 m) below land-surface datum, Oct. 31, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.44	4.31	5.85	7.07H	8.67H	---	4.17	---	6.73	6.25	8.75	---
10	8.70	---	4.47	---	---	---	4.60	---	---	6.71	9.13	---
15	8.75	---	---	---	---	---	4.78	5.42	---	7.02	9.50	---
20	8.86	---	---	---	---	---	5.09	---	5.72	7.45	9.97	---
25	6.67	---	---	---	---	---	5.32	6.60H	5.90	7.70	---	---
EOM	5.22	5.78	6.54	8.55H	7.48	3.89H	4.62	6.92	5.87	8.39	10.24H	4.40H

H - Tape measurement

442023069553801. Local number K 88.
LOCATION.--Lat 44°20'23", long 69°55'38", Hydrologic Unit 01030003, on State Highway 135, 1.4 mi (2.3 km) north of U.S. Highway 202, in East Winthrop.
Owner: A. Allen Stackpole.
AQUIFER.--Bedrock of Silurian age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in (0.15 m), depth 298 ft (90.8 m), open hole.
DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of pipe at land-surface datum.
PERIOD OF RECORD.--April 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.26 ft (10.75 m) below land-surface datum, Apr. 17, 1972: lowest measured, 62.31 ft (18.99 m) below land-surface datum, Sept. 30, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	59.04	DEC 30	57.22	APR 27	48.90	JUN 28	56.08	AUG 31	56.29		
DEC 01	59.84	MAR 31	47.15	MAY 27	51.99	JUL 29	56.93				

440918069564001. Local number, K 766.
LOCATION.--Lat 44°09'18", long 69°56'40", Hydrologic Unit 01030003, in Litchfield, 300 ft (91 m) east of town office.
Owner: U.S. Geological Survey.
AQUIFER.--Glacial sand and gravel (ice-contact deposits) of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 65 ft (19.8 m), cased to 62 ft (18.9 m), open end.
DATUM.--Altitude of land-surface datum is 300 ft (91 m). Measuring point: Floor of recorder shelter at land-surface datum.
PERIOD OF RECORD.--June 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.35 ft (12.30 m) below land-surface datum, Mar. 15, 1977; lowest measured, 47.63 ft (14.52 m) below land-surface datum, Sept. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	47.30H	46.67	47.05	41.64	43.22	44.33	45.03	46.04	47.12
10	46.08H	---	---	47.19	46.71	46.98	42.30	43.54	44.38	45.23	46.33	47.26
15	---	---	---	47.15	46.90	40.35	42.60	---	44.47	45.38	46.38	47.44
20	---	---	---	47.03	46.99	---	42.92	---	44.60	45.55	46.49	47.54
25	---	46.62H	---	46.87	47.11	---	42.97	43.94H	44.69	45.74	46.64	47.63
EOM	46.19H	---	---	46.75	47.04	---	43.05	44.23H	44.90	45.87	46.93H	47.48

H - Tape measurement

OXFORD COUNTY

444637070552301. Local number, O 400.
LOCATION.--Lat 44°46'37", long 70°55'23", Hydrologic Unit 01040001, at Middle Dam, Lower Richardson Lake.
Owner: Union Water Power Co.
AQUIFER.--Glacial till of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in (0.61 m), depth 15 ft (4.6 m), cased with concrete pipe to 15 ft (4.6 m), open end.
DATUM.--Altitude of land-surface datum is 1,450 ft (442 m). Measuring point: Top of casing, 2.0 ft (0.61 m) above land-surface datum.
PERIOD OF RECORD.--April 1944 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.4 ft (0.12 m) above land-surface datum, Apr. 11, 1976; lowest measured, 12.2 ft (3.7 m) below land-surface datum, Oct. 9, 16, 23, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	5.50	DEC 12	4.40	FEB 13	7.80	APR 17	0.90	JUN 19	5.30	AUG 21	7.40
OCT 10	4.40	DEC 19	5.40	FEB 20	8.30	APR 24	0.50	JUN 26	4.40	AUG 28	5.80
OCT 17	4.00	DEC 26	5.50	FEB 27	8.50	MAY 01	1.80	JUL 03	4.60	SEP 04	6.50
OCT 24	2.20	JAN 02	6.50	MAR 06	8.70	MAY 08	2.80	JUL 10	6.10	SEP 11	7.00
OCT 31	2.70	JAN 09	6.80	MAR 13	8.30	MAY 15	3.50	JUL 17	6.80	SEP 18	6.60
NOV 07	2.50	JAN 16	6.90	MAR 20	4.00	MAY 22	4.60	JUL 24	7.30	SEP 25	6.40
NOV 14	3.10	JAN 23	7.40	MAR 27	4.10	MAY 29	5.70	JUL 31	8.40		
NOV 28	4.00	JAN 30	7.50	APR 03	0.90	JUN 05	5.00	AUG 07	8.80		
DEC 05	4.30	FEB 06	8.00	APR 10	2.00	JUN 12	5.00	AUG 14	9.30		

OXFORD COUNTY--Continued

441507070310201. Local number, O 413.

LOCATION.--Lat 44°15'07", long 70°31'02", Hydrologic Unit 01040002, off Dump Road, 2 mi (3.2 km) north of village of South Paris.

Owner: Paris Utility District.

AQUIFER.--Sand and gravel (outwash) of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in (0.51 m), depth 67 ft (20.4 m), screened from 64 to 67 ft (19.5 to 20.4 m).

DATUM.--Altitude of land-surface datum is 350 ft (107 m). Measuring point: Top of pipe at land-surface datum.

REMARKS.--Water-quality records for nearby public-supply well are published elsewhere in this report.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.58 ft (2.62 m) below land-surface datum, Aug. 16, 1976; lowest measured, 16.58 ft (5.05 m) below land-surface datum, June 9, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 11	14.13	DEC 16	11.30	NOV 30	11.66	FEB 24	14.11C	APR 12	11.20C	JUN 27	12.28
NOV 26	12.27	22	11.69	FEB 02	14.02C	MAR 31	11.64	JUN 09	16.58C	SEP 20	15.64C

C - Nearby well being pumped

PENOBSCOT COUNTY

451047068512201. Local number, Pe 455.

LOCATION.--Lat 45°10'47", long 68°51'22", Hydrologic Unit 01020005, on Medford Road, about 0.25 mi (0.4 km) north of intersection of State Highway 16, Lagrange.

Owner: Mrs. Elsie Mullins.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic and observation water-table well, diameter 36 in (0.91 m), depth 24.2 ft (7.4 m), cased with rock to 24.2 ft (7.4 m), open end.

DATUM.--Altitude of land-surface datum is 410 ft (125 m). Measuring point: Painted nail in north side of windlass housing at land-surface datum.

PERIOD OF RECORD.--November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.13 ft (0.95 m) below land-surface datum, Mar. 31, 1977; lowest measured, 11.30 ft (3.44 m) below land-surface datum, Aug. 15, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	5.82	DEC 15	6.10	FEB 15	9.47	APR 14	3.75	JUN 15	5.95	AUG 15	11.30
NOV 01	4.38	DEC 30	7.07	FEB 27	9.88	APR 30	4.75	JUN 30	5.22	AUG 31	9.69
NOV 27	6.47	JAN 15	8.10	MAR 15	3.40	MAY 15	5.27	JUL 15	8.30	SEP 15	10.59
DEC 02	6.42	JAN 30	8.90	MAR 31	3.13	MAY 31	7.70	JUL 30	10.25	SEP 30	6.97

SOMERSET COUNTY

444219069545801. Local number, Sm 1.

LOCATION.--Lat 44°42'19", long 69°54'58", Hydrologic Unit 01030003, on dirt road 2.25 mi (3.62 km) north of village of Mercer.

Owner: J. Harrison Farrand.

AQUIFER.--Eolian deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 60 in (1.52 m), depth 14 ft (4.3 m), cased with rock to 14 ft (4.3 m), open end.

DATUM.--Altitude of land-surface datum is 270 ft (82 m). Measuring point: Nail in top of horizontal timber at northeast corner of well cover, 0.4 ft (0.1 m) above land-surface datum.

REMARKS.--Water-quality records for the current water year are published elsewhere in this report. Records for water years 1968-75 are available in files of the Geological Survey.

PERIOD OF RECORD.--November 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.30 ft (1.01 m) below land-surface datum, Apr. 12, 1975; lowest estimated, 14.1 ft (4.3 m) below land-surface datum, Nov. 30, 1952.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	6.06	DEC 26	5.55	MAR 26	4.53	MAY 13	4.97	JUL 10	6.00	SEP 25	8.93
OCT 24	4.77	JAN 12	6.93	APR 10	4.43	MAY 26	5.78	JUL 26	7.56		
NOV 10	4.98	JAN 25	7.12	APR 25	4.26	JUN 01	6.17	AUG 12	8.44		
NOV 26	5.55	FEB 24	7.42	APR 30	4.48	JUN 25	5.09	AUG 25	8.30		
DEC 11	5.22	MAR 10	7.17	MAY 05	4.78	JUN 28	4.97	SEP 11	8.64		

WASHINGTON COUNTY

444240067283501. Local number, W 1.
LOCATION.--Lat 44°42'40", long 67°28'35", Hydrologic Unit 01050002, at barn southeast of race track at former fairgrounds on U.S. Highway 1A, 1.0 mi (1.6 km) west of village of Machias.
Owner: Julian A. Johnson.
AQUIFER.--Bedrock of Silurian age.
WELL CHARACTERISTICS.--Drilled artesian stock and observation well, diameter 6 in (0.15 m), depth 54 ft (16.5 m), open hole.
DATUM.--Altitude of land-surface datum is 140 ft (43 m). Measuring point: Top of casing at land-surface datum.
REMARKS.--Water-quality records for the current water year are published elsewhere in this report. Records for water years 1968, 1972, and 1975 are available in files of the Geological Survey.
PERIOD OF RECORD.--July 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.29 ft (1.61 m) below land-surface datum, Apr. 16, 1961; lowest measured, 13.95 ft (4.25 m) below land-surface datum, Feb. 2, 1959.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	10.40	FEB 02	10.95	APR 16	8.35	JUN 14	12.40	AUG 30	10.43		
OCT 27	9.05	FEB 23	11.65	APR 28	8.85	JUN 29	8.59	SEP 14	11.23		
NOV 27	10.75	MAR 14	7.60	MAY 14	11.33	JUL 29	12.22	SEP 30	9.11		
DEC 27	10.40	MAR 28	7.40	MAY 31	10.20	AUG 15	10.94				

444955067000501. Local number, W 2.
LOCATION.--Lat 44°49'55", long 67°00'05", Hydrologic Unit 01050002, on Maple Tree Road, 1.0 mi (1.6 km) south of State Highway 189, Lubec.
Owner: Lubec Water and Light District.
AQUIFER.--Stratified sand and gravel (end moraine) of Pleistocene age.
WELL CHARACTERISTICS.--Driven artesian observation well, diameter 2.5 (0.06 m), depth 52 ft (15.8 m), screened 42 to 52 ft (12.8 to 15.8 m).
DATUM.--Altitude of land-surface datum is 50 ft (15 m). Measuring point: Top of casing at land-surface datum.
PERIOD OF RECORD.--July 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.31 ft (2.84 m) below land-surface datum, June 14, 1960; lowest measured, 19.89 ft (6.06 m) below land-surface datum, Nov. 12, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	14.90	DEC 30	14.42	APR 29	12.32	JUL 30	12.12				
NOV 30	16.28	MAR 29	12.80	MAY 30	14.86	AUG 29	13.16				

YORK COUNTY

434822070482501. Local number, Y 1.
LOCATION.--Lat 43°48'22", long 70°48'25", Hydrologic Unit 01050002, on Main Street, about 0.2 mi (0.3 km) east of intersections of State Highways 25 and 5 in Cornish.
Owner: James P. Small.
AQUIFER.--Stratified sand and gravel (outwash) of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in (0.91 m), depth 24 ft (7.3 m), cased with brick to 24 ft (7.3 m), open end.
DATUM.--Altitude of land-surface datum is 370 ft (113 m). Measuring point: Mark chiseled on top of concrete curb at land-surface datum.
REMARKS.--Water-quality records for the current water year are published elsewhere in this report. Records for water years 1968-75 are available in files of the Geological Survey.
PERIOD OF RECORD.--November 1943 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.17 ft (2.19 m) below land-surface datum, Mar. 16, 1977; lowest measured, 18.40 ft (5.61 m) below land-surface datum, Nov. 14, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	10.62	13.39	13.80	16.55	17.38	8.66	9.32H	11.83	12.00	14.05	---
10	---	10.69	13.52	---	16.76	15.47	8.76	---	12.18	12.25	14.41	15.85
15	---	10.93	11.49	---	16.94	8.66	9.02	---	12.40	12.66	14.78	---
20	---	11.28	11.51	---	17.09	8.10	9.35	---	12.18	12.65	15.00	---
25	10.11H	12.35	12.65	15.99H	17.17	9.03	9.76	11.08H	11.76H	12.91	15.21	---
EOM	10.50	12.82	13.15	16.30	17.36	8.88	8.95	11.64	11.71	13.65	15.45	---

H - Tape measurement

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

STATION NUMBER	GEO-LOGIC UNIT	SAMP-LING DEPTH (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
ANDROSCOGGIN COUNTY											
440224070064801	112ICCC	66	77-02-03	290	7.8	10.0	110	22	38	4.8	18
	112ICCC	66	77-04-13	300	7.8	10.5	110	15	35	4.3	18
	112ICCC	66	77-07-07	295	7.4	10.0	110	13	37	4.5	17
	112ICCC	66	77-09-20	300	7.7	10.0	120	18	39	4.7	19
440311070080803	112ICCC	90	77-04-12	180	7.6	10.0	62	35	20	2.9	4.7
	112ICCC	90	77-07-07	175	7.6	9.0	79	19	26	3.5	4.9
	112ICCC	90	77-09-19	185	7.6	9.0	76	14	25	3.4	4.9
440438070261601	112ICCC	45	77-02-02	57	6.9	4.0	20	0	5.5	1.4	2.5
	112ICCC	45	77-04-12	68	7.0	7.5	15	0	4.5	.8	2.3
	112ICCC	45	77-07-06	72	7.0	9.0	17	0	5.2	.9	2.9
	112ICCC	45	77-09-19	47	6.4	8.0	13	13	4.0	.7	2.1
440730070035302	112ICCC	60	76-11-03	180	7.5	8.0	73	17	25	2.6	4.3
	112ICCC	60	77-02-03	150	7.2	6.0	61	18	21	2.1	3.2
	112ICCC	58	77-07-06	200	7.6	9.0	84	26	29	2.8	4.9
	112ICCC	60	77-09-21	195	7.8	8.5	84	23	29	2.7	5.1
441039070052701	112DFSFE	120	77-02-03	170	7.8	--	70	19	23	3.0	5.2
	112DFSFE	120	77-04-12	170	7.6	4.0	35	17	11	1.8	5.1
	112DFSFE	120	77-07-06	163	7.6	12.0	64	9	22	2.1	5.4
	112DFSFE	120	77-09-16	142	8.0	15.0	64	10	22	2.1	5.7
441123070201501	300BDRK	216	77-07-06	115	7.6	--	44	10	14	2.3	5.8
KENNEBEC COUNTY											
441849069442001	112TILL	22	77-05-13	300	6.2	8.0	85	60	21	7.8	23
OXFORD COUNTY											
440702070270301	112OTSH	32	77-02-02	83	6.6	--	23	0	7.5	1.1	2.3
	112OTSH	32	77-04-20	--	--	--	15	0	5.2	.4	1.9
	112OTSH	32	77-07-06	46	6.0	13.0	15	0	5.3	.4	2.3
	112OTSH	32	77-09-20	51	6.4	14.0	17	0	6.0	.4	2.4
440800070291501	112ICCC	83	77-02-02	130	6.8	8.0	40	4	11	3.0	12
	112ICCC	83	77-04-12	122	7.0	9.0	30	0	9.0	1.8	14
	112ICCC	83	77-07-06	121	6.8	9.0	33	0	10	2.0	11
	112ICCC	83	77-09-20	130	7.0	8.5	33	0	10	2.0	12
441137070312501	112ICCC	82	77-02-02	150	6.6	9.0	50	19	15	3.0	9.8
	112ICCC	82	77-04-12	150	6.2	10.0	49	24	16	2.3	8.3
	112ICCC	82	77-07-06	155	6.0	10.0	44	17	14	2.3	10
	112ICCC	82	77-09-20	160	6.2	11.0	44	18	14	2.3	11
441500070310501	112OTSH	60	77-02-02	95	6.6	8.0	37	12	12	1.8	3.6
	112OTSH	60	77-04-12	90	6.2	8.0	31	9	11	.8	3.3
	112OTSH	60	77-07-06	108	6.2	8.0	44	20	16	1.1	4.2
	112OTSH	60	77-09-19	110	6.2	8.5	37	11	13	1.0	4.6
SOMERSET COUNTY											
444219069545801	111EOLN	14	77-05-13	144	6.6	5.0	62	4	19	3.6	2.3
WALDO COUNTY											
442522069260001	300BDRK	--	77-07-11	--	--	--	170	51	56	6.4	9.3
	300BDRK	--	77-09-23	--	--	--	150	36	50	6.2	10
WASHINGTON COUNTY											
444240067283501	300BDRK	71	77-05-17	200	6.2	12.0	80	4	28	2.4	6.5
YORK COUNTY											
434822070482501	112OTSH	24	77-05-05	--	--	--	77	47	27	2.3	10

Geological unit (aquifer):

111EOLN - Eolian deposits, Pleistocene age.
112DFSFE - Early stratified drift, Pleistocene age.
112ICCC - Ice-contact deposits, Pleistocene age.
112OTSH - Glacial outwash, Pleistocene age.
112TILL - Glacial till, Pleistocene age.
300BDRK - Bedrock undifferentiated, Paleozoic age.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)
ANDROSCOGGIN COUNTY--Continued											
440224070064801	77-02-03	3.3	113	0	2.9	25	24	13	182	.04	.18
	77-04-13	3.3	110	0	2.8	24	22	13	176	.41	1.8
	77-07-07	3.5	120	0	7.6	24	22	14	182	.04	.18
	77-09-20	4.0	120	0	3.8	25	24	14	189	.04	.18
440311070080803	77-04-12	1.6	33	0	1.3	21	3.1	15	85	.03	.13
	77-07-07	1.7	74	0	3.0	20	3.3	18	114	.00	.00
	77-09-19	1.8	76	0	3.1	21	3.6	18	115	.00	.00
440438070261601	77-02-02	.8	25	0	5.0	3.2	2.4	9.9	38	.03	.13
	77-04-12	.8	19	0	3.0	6.0	1.0	5.5	31	.02	.09
	77-07-06	1.0	26	0	4.2	.2	1.3	5.1	30	.05	.22
	77-09-19	.7	0	0	.0	1.9	1.6	12	38	3.3	15
440730070035302	76-11-03	2.4	69	0	3.5	16	9.9	15	112	.66	2.9
	77-02-03	2.0	52	0	5.2	8.5	6.0	13	84	.46	2.0
	77-07-06	2.6	71	0	2.9	15	9.7	15	117	.75	3.3
	77-09-21	2.7	74	0	1.9	14	12	14	119	.75	3.3
441039070052701	77-02-03	2.9	62	0	1.6	17	4.2	11	97	.00	.00
	77-04-12	3.0	22	0	.9	17	3.3	10	62	.02	.09
	77-07-06	3.2	66	0	2.7	15	3.3	12	96	.01	.04
	77-09-16	3.5	65	0	1.0	16	3.7	12	97	.01	.04
441123070201501	77-07-06	1.3	42	0	1.7	15	3.4	13	76	.03	.13
KENNEBEC COUNTY--Continued											
441849069442001	77-05-13	2.2	30	0	30	11	67	11	160	.56	2.5
OXFORD COUNTY--Continued											
440702070270301	77-02-02	.5	40	0	16	2.6	2.9	6.8	44	.02	.09
	77-04-20	.5	21	--	--	.7	1.4	6.0	27	.01	.04
	77-07-06	.4	24	0	38	1.2	2.4	7.2	31	.00	.00
	77-09-20	.6	22	0	14	1.4	2.5	7.4	32	.00	.00
440800070291501	77-02-02	1.3	44	0	11	9.0	6.3	12	79	.50	2.2
	77-04-12	1.4	45	0	7.2	12	4.7	11	78	.41	1.8
	77-07-06	1.4	47	0	12	9.8	5.2	12	77	.54	2.4
	77-09-20	1.7	42	0	6.7	9.8	5.7	12	77	.65	2.9
441137070312501	77-02-02	1.4	38	0	15	6.8	23	11	96	1.7	7.5
	77-04-12	1.4	31	0	31	14	19	11	95	1.7	7.5
	77-07-06	1.5	34	0	54	6.3	20	12	90	1.7	7.5
	77-09-20	1.7	32	0	32	7.2	19	12	91	1.7	7.5
441500070310501	77-02-02	.9	31	0	12	6.7	7.6	8.0	57	.12	.53
	77-04-12	.9	27	0	27	8.2	6.7	7.3	53	.20	.89
	77-07-06	1.0	30	0	30	7.9	7.0	5.4	58	.11	.49
	77-09-19	1.1	31	0	31	7.3	7.4	9.1	59	.10	.44
SOMERSET COUNTY--Continued											
444219069545801	77-05-13	2.9	71	0	29	5.0	1.8	6.6	76	.03	.13
WALDO COUNTY--Continued											
442522069260001	77-07-11	3.2	140	--	--	31	18	17	218	1.9	8.4
	77-09-23	3.2	140	--	--	30	17	17	211	1.9	8.4
WASHINGTON COUNTY--Continued											
444240067283501	77-05-17	2.8	93	0	94	9.1	5.2	13	116	.70	3.1
YORK COUNTY--Continued											
434822070482501	77-05-05	6.5	36	--	--	18	21	5.4	137	6.5	29

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
ANDROSCOGGIN COUNTY--Continued								
440224070064801	77-02-03	.01	.03	.03	280	70	0	3.8
	77-04-13	.01	.03	.02	220	70	--	1.6
	77-07-07	.00	.00	.00	360	80	--	6.3
	77-09-20	.00	.00	.02	230	70	--	8.1
440311070080803	77-04-12	.01	.03	.01	220	70	10	1.4
	77-07-07	.00	.00	.00	140	80	--	5.7
	77-09-19	.00	.00	.01	310	90	--	7.9
440438070261601	77-02-02	.01	.03	.58	4000	170	70	6.7
	77-04-12	.01	.03	.01	3500	270	--	1.4
	77-07-06	.00	.00	.00	4400	230	--	5.8
	77-09-19	.00	.00	.01	70	10	--	5.2
440730070035302	76-11-03	.01	.03	.03	20	0	--	3.4
	77-02-03	.04	.13	.01	2000	50	60	6.9
	77-07-06	.00	.00	.00	70	10	--	6.1
	77-09-21	.00	.00	.01	150	10	--	6.2
441039070052701	77-02-03	.01	.03	.03	190	10	20	4.2
	77-04-12	.01	.03	.01	110	10	--	--
	77-07-06	.00	.00	.00	600	20	--	4.1
	77-09-16	.00	.00	.00	170	10	--	5.9
441123070201501	77-07-06	.00	.00	.09	120	20	--	5.4
KENNEBEC COUNTY--Continued								
441849069442001	77-05-13	.00	.00	--	60	20	--	--
OXFORD COUNTY--Continued								
440702070270301	77-02-02	.01	.03	.06	170	20	10000	8.1
	77-04-20	.00	.00	--	50	0	1300	3.2
	77-07-06	.00	.00	.00	700	10	750	5.0
	77-09-20	.00	.00	.01	320	0	730	5.8
440800070291501	77-02-02	.01	.03	.03	20	0	0	6.0
	77-04-12	.01	.03	.01	60	0	--	1.5
	77-07-06	.00	.00	.00	10	0	--	4.9
	77-09-20	.00	.00	.00	80	0	--	7.2
441137070312501	77-02-02	.01	.03	.14	40	10	0	1.6
	77-04-12	.01	.03	.01	60	0	--	2.3
	77-07-06	.00	.00	.00	50	10	--	6.7
	77-09-20	.01	.03	.07	140	10	--	5.8
441500070310501	77-02-02	.01	.03	.03	60	0	10	9.0
	77-04-12	.01	.03	.01	120	10	--	1.7
	77-07-06	.00	.00	.00	900	10	--	5.6
	77-09-19	.00	.00	.01	120	10	--	8.1
SOMERSET COUNTY--Continued								
444219069545801	77-05-13	.00	.00	--	4500	540	--	7.9
WALDO COUNTY--Continued								
442522069260001	77-07-11	.01	.03	--	2300	20	--	4.5
	77-09-23	.01	.03	.00	250	10	--	--
WASHINGTON COUNTY--Continued								
444240067283501	77-05-17	.01	.03	--	1800	60	--	--
YORK COUNTY--Continued								
434822070482501	77-05-05	.01	.03	--	70	20	--	--

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons